

# Kansas Register

Bill Graves, Secretary of State

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## State of Kansas

**Department of Administration  
Division of Architectural Services**

**Notice of Commencement of Negotiations  
for Engineering Services**

Notice is hereby given of the commencement of negotiations for "on-call" engineering services for Wichita State University. Interested firms should be capable of assisting university personnel on miscellaneous small engineering projects for two to three years.

An original and six copies of the SF 255 form (plus relevant attachments of information regarding similar projects) should be concise, relevant to the project and follow the State Building Advisory Commission guidelines for submittal. Copies of the guidelines have previously been distributed to firms; if copies of the guidelines are required, contact Gary Grimes, Division of Architectural Services, 625 Polk, Topeka 66603, (913) 233-9367. Any questions or expressions of interest should be directed to Gary Grimes on or before September 16.

J. David DeBusman  
Director, Division of  
Architectural Services

Doc. No. 015294

## State of Kansas

**Department of Administration  
Division of Architectural Services**

**Notice of Commencement of Negotiations for  
Engineering Services**

Notice is hereby given of the commencement of negotiations for engineering services for a lagoon expansion/upgrade for the Norton Correctional Facility. The project is for the construction of a fifth cell and related piping. Also included in the project is the replacement of 200 feet of sanitary sewer line near the lagoon complex. The estimated construction cost is \$79,500.

An original and six copies of the SF 255 form (plus relevant attachments of information regarding similar projects) should be concise, relevant to the project and follow the State Building Advisory Commission guidelines for submittal. Copies of the guidelines have previously been distributed to firms; if copies of the guidelines are required, contact Gary Grimes, Deputy Director of Planning and Project Management, Division of Architectural Services, 625 Polk, Topeka 66603, (913) 233-9367. Any questions or expressions of interest should be directed to Gary Grimes on or before September 16.

J. David DeBusman  
Director, Division of  
Architectural Services

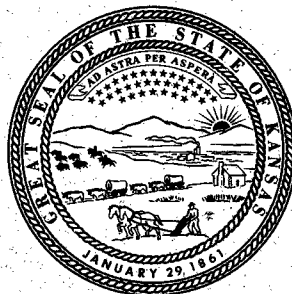
Doc. No. 015302

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**Secretary of State**  
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(913) 296-2236



**Kansas Register Office:**  
**235-N, State Capitol**  
**(913) 296-3489**

State of Kansas

**Commission on Disability Concerns**

**Notice of Meeting**

The Commission on Disability Concerns will meet from 9:30 a.m. to 4 p.m. Thursday, September 8, in the classroom at the Employment Security Systems Institute (ESSI) Building, 1309 S.W. Topeka Blvd., Topeka.

Joe Dick  
Secretary of Human Resources

Doc. No. 015266

State of Kansas

**Department of Administration  
Division of Architectural Services**

**Notice of Commencement of Negotiations  
for Architectural Services**

Notice is hereby given of the commencement of negotiations for architectural services for the kitchen renovation project at the Hutchinson Correctional Facility. The selected firm will provide designs for the renovation of the existing kitchen to either a cook/chill or conventional kitchen. A schematic design and estimated cost for each type of kitchen will be required. The cook/chill kitchen will be designed to become a regional or central food production area for the department. At this time, only the cook/chill equipment required for a pilot program will be installed. Items to be part of the study are serving lines, bakery, vegetable preparation and packaging, food preparation, sack lunches, space requirements for coolers/freezers both in the kitchen and warehouse dry food storage, office space and a breakroom for staff and inmates.

Due to cook/chill being a relatively new concept in food production, a food production designer is required to be part of the planning team. The designer should have at least five years' experience in cook/chill kitchen designs of 25,000 meals per day or more. The designer should also have experience in correctional food service.

An original and six copies of the SF 255 form (plus relevant attachments of information regarding similar projects) should be concise, relevant to the project and follow the State Building Advisory Commission guidelines for submittal. Copies of the guidelines have previously been distributed to firms; if copies of the guidelines are required, contact Gary Grimes, Division of Architectural Services, 625 Polk, Topeka 66603, (913) 233-9367. Any questions or expressions of interest should be directed to Gary Grimes on or before September 16.

J. David DeBusman  
Director, Division of  
Architectural Services

Doc. No. 015293

State of Kansas

**University of Kansas Medical Center**

**Notice to Bidders**

Sealed bids for the item listed below will be received by the University of Kansas Medical Center, Purchasing Department, 3901 Rainbow Blvd., Kansas City, KS 66160-7162, until 2 p.m. on the date indicated and then will be publicly opened. Interested bidders may call Peggy Davis at (913) 588-1115 for additional information.

**Thursday, September 15, 1994**

**725064**

Ophthalmic cryo system

Barbara Lockhart  
Purchasing Director

Doc. No. 015292

State of Kansas

**Kansas State University**

**Notice to Bidders**

Sealed bids for items listed below will be received by the Kansas State University Purchasing Office, Manhattan, until 2 p.m. local time on the date indicated and then will be publicly opened. Interested bidders may call (913) 532-6214 or FAX (913) 532-5632 for additional information.

**Monday, September 12, 1994**

**#50030**

Bird transmitters

William H. Sesler  
Director of Purchasing

Doc. No. 015291

State of Kansas

**Kansas Advocacy and Protective  
Services, Inc.**

**Request for Comments**

The public is provided with the opportunity to comment on the priorities and objectives of Kansas Advocacy and Protective Services, Inc., relating to protection and advocacy provided for by the Developmental Disabilities Act (P.L. 94-103, as amended). A 30-day period for public comment extends through September 30. Copies of materials describing priorities and objectives for the program may be obtained by contacting Kansas Advocacy and Protective Services, Inc., 2601 Anderson Ave., Suite 200, Manhattan 66502-2876, 1-800-432-8276 (Voice/TDD).

Joan Strickler  
Executive Director

Doc. No. 015305

## State of Kansas

## Legislature

## Interim Committee Schedule

The following committee meetings have been scheduled during the period of September 5 through September 18:

Date	Room	Time	Committee	Agenda
September 6	514-S	10:00 a.m.	Special Committee on Ways and Means	<u>6th</u> : Mental retardation and developmental disabilities (MR/DD) issues; select inmate population profiles and projections by the Dept. of Corrections. <u>7th</u> : Haskell Indian Nations University wetlands issue; state general fund status and profile.
September 7	514-S	9:00 a.m.		
September 6	519-S	10:00 a.m.	Joint Committee on Children and Families	<u>6th</u> : Teen pregnancy intervention and prevention. <u>7th</u> : Healthy Start.
September 7	519-S	9:00 a.m.		
September 7	123-S	1:30 p.m.	Legislative Coordinating Council	Legislative matters.
September 9	123-S	10:00 a.m.	Joint Committee on Pensions, Investments and Benefits	Review of pending litigation and asset allocation study.
September 12	123-S	9:00 a.m.	Joint Committee on Economic Development	Presentations on business finance assistance programs.
September 13	123-S	9:00 a.m.		
September 13	531-N	10:00 a.m.	Joint Committee on Special Claims Against the State	Hearings on claims filed to date.
September 14	531-N	9:00 a.m.		
September 15	123-S	10:00 a.m.	Legislative Budget Committee	<u>15th</u> : a.m.—Fees for the Dept. of Health and Environment wastewater treatment programs; p.m.—school district substance abuse prevention programs; committee discussion and possible conclusions on substance abuse issue. <u>16th</u> : Children's services funding; committee discussion and possible conclusions on homestead property tax refund procedures; state general fund receipts.
September 16	123-S	9:00 a.m.		
September 15	On tour		Blue Highway-Having It All (Health Care)	<u>15th</u> : McPherson and Great Bend. <u>16th</u> : Salina. (Location in each community will be announced later.)
September 16	On tour			
September 15	519-S	10:00 a.m.	Joint Committee on State Building Construction	Agenda not available.
September 16	519-S	9:00 a.m.		
September 16	Salina		Kansas Council on Privatization	Agenda not available.

Emil Lutz  
Director of Legislative  
Administrative Services



## State of Kansas

## Board of Emergency Medical Services

Notice of Hearing on Proposed  
Administrative Regulations

A public hearing will be conducted at 1 p.m. Wednesday, October 5, in the auditorium, Room B-12, Docking State Office Building, 915 S.W. Harrison, Topeka, to consider the adoption of proposed changes in existing regulations K.A.R. 109-1-1, 109-5-1, 109-8-1, 109-9-4, 109-9-5 and 109-10-1 and adoption of new regulation K.A.R. 109-10-5 of the Board of Emergency Medical Services.

This notice constitutes a public comment period for the purpose of receiving written public comments on the proposed regulations. All interested parties may submit written comments prior to the hearing to Bob McDanel, Administrator, Board of Emergency Medical Services, 109 S.W. 6th, Topeka 66603-3826. Copies of the proposed regulations may be obtained from Bob McDanel. All interested parties will be given a reasonable opportunity at the hearing to present their views orally on the adoption of the proposed regulations. In order to give all parties an opportunity to express their views, it may be necessary to request each participant to limit oral presentation to five minutes. These regulations are proposed for adoption on a permanent basis. A summary of the proposed regulations and their economic impact follows.

**109-1-1. Definitions.** Proposed amendments to this regulation define a new category of continuing education and will define the meaning of a site coordinator. There is no economic impact since this regulation simply defines terms used in other regulations.

**109-5-1. Continuing education.** The changes desired in this regulation allow automated external defibrillator providers to renew their approval by taking two hours of continuing education training annually rather than taking the entire four to six hour course each year. This will save each training program and each approved provider a minimum of two hours time each year in meeting the renewal requirements. Other changes proposed in this regulation will transfer board policy to regulation concerning training officer I and training officer II renewal requirements and will allow the board to be more specific in the content required for the continuing education process if necessary. There is no economic impact since there is no change in what is currently required.

**109-8-1. Examinations.** The proposed changes to this regulation transfer board policy to regulation concerning instructor-coordinator and training officer examinations and establish an approved examination for inter-active television endorsement of instructor-coordinators and training officers. There is no economic impact since there is no change in what is currently required and inter-active television endorsement is not a required activity for instructor-coordinators and training officers.

**109-9-4. Instructor-coordinator training.** The proposed changes to this regulation clarify board policy as to the eligibility of individuals to take instructor-coordinator training. The changes also clarify that the requirements apply to instructor-coordinator endorsement

courses as well as the basic instructor-coordinator course. The changes make it easier for the instructor-coordinator applicant to obtain letters of recommendation for training and clarify that the pre-selection process for instructor-coordinator training is applicable to the basic instructor-coordinator course only and does not include advanced endorsement courses. There is no economic impact since the proposed changes do not change what is currently required but simply clarify the process.

**109-9-5. Instructor-coordinator standards.** The proposed changes to this regulation clarify board policy as to how standards, which must be met by certified instructor-coordinators, are measured. There is no economic impact since these changes simply clarify what is already being done.

**109-10-1. Curriculum approval.** The proposed changes to this regulation clarify that the curricula discussed are for initial courses of instruction, revoke the crash injury management technician curriculum and clarify existing board policy as to the required curriculum for automated external defibrillation, instructor-coordinator basic course, instructor-coordinator advanced endorsement courses and training officer I and training officer II initial courses of instruction. The changes also establish the required curriculum for inter-active television endorsement of instructor-coordinators and training officers. The other proposed change to this regulation will modify the curriculum used by instructor-coordinators to teach emergency medical technicians. The economic impact deals only with the modifications to the emergency medical technician initial course of instruction. It will cost training programs approximately \$150 for every six students to purchase the additional equipment necessary to teach the added material.

**109-10-5. Inter-active television.** This proposed new regulation will establish criteria to be met by instructor-coordinators and training officers who desire to use inter-active television as a medium to deliver approved training. The economic impact is limited to the cost to the training program to provide a site coordinator at each site.

Any individual with a disability may request accommodation in order to participate in the public hearing and may request the proposed regulations and economic impact statements in an accessible format. Requests for accommodation should be made at least five working days in advance of the hearing by contacting Bob McDanel at (913) 296-7296 or (913) 296-6349 (TDDY).

Bob McDanel  
Administrator

Doc. No. 015289

## State of Kansas

## State Fair Board

## Notice of Meeting

The State Fair Board will meet at 1 p.m. Friday, September 9, in the Administration Office on the fairgrounds in Hutchinson. For further information, contact Deana Novak at (316) 669-3612.

Deana Novak  
Administrative Officer

Doc. No. 015288

## State of Kansas

Department of Administration  
Division of Purchases

## Notice of Bidders

Sealed bids for items hereinafter listed will be received by the Director of Purchases, Room 102, Landon State Office Building, 900 S.W. Jackson, Topeka, until 2 p.m. on the date indicated, and then will be publicly opened. Interested bidders may call (913) 296-2377 for additional information:

## Monday, September 12, 1994

## 30108 (Partial Rebid)

Statewide—Asbestos abatement supplies and respirator cartridges

99858

University of Kansas—S-VHS video equipment

99863

University of Kansas Medical Center—VHS recording system

## Tuesday, September 13, 1994

## A-7397

Department of Human Resources—Pressurization modifications, first floor

30667

University of Kansas Medical Center—Neurosurgical pressure monitoring kits

30670

Kansas State University—Liquid nitrogen storage tanks

30672

Department of Wildlife and Parks—Heavy equipment work (Clinton Wildlife Area)

30678

Department of Transportation—Automotive lubricants, statewide

30680

Department of Wildlife and Parks—Rip rap (Lovewell)

99829

University of Kansas—Potentiostat/galvanostat

99830

University of Kansas—Paper, printing and binding: Locke

99836

Department of Transportation—Microfilm reader/printer

Wednesday, September 14, 1994

A-7469

University of Kansas—New wire center, McCollum Lab

A-7546

University of Kansas—Reroof various buildings/ Marvin Hall reroof

30675

Statewide—Dietary pharmaceuticals

30676

University of Kansas—Subtractive plates, chemistry and processor

99827

Fort Hays State University—IBM mobile PC

99842

University of Kansas—Media scheduling system

Thursday, September 15, 1994

A-7596

Kansas State University—Ion lab/compressor building, Cardwell Hall

30671

Statewide—High speed printer ribbons

99845

Lansing Correctional Facility—Furnish and install transformer

99846

Department of Human Resources—Furnish and install carpet and cove base

99849

Kansas State University—Furnish and install water purification system

Friday, September 16, 1994

A-7591

Department of Wildlife and Parks—1994 roadway repair, Perry State Park

99859

Kansas State University—Blackflow preventers

99862

Topeka Correctional Facility—Truck

99864

University of Kansas—Unix workstation (HP Series 9000)

99866

Kansas State University—Isotope ratio mass spectrometer

Tuesday, September 20, 1994

A-7197 (Rebid)

Kansas Neurological Institute—Correct floor movement, Sunflower Building

Thursday, October 6, 1994

A-7364

Pittsburg State University—Overman Student Center, addition and renovation

Jack R. Shipman  
Director of Purchases

Doc. No. 015312

State of Kansas

State Corporation Commission

Notice of Motor Carrier Hearings

Applications set for hearing are to be heard at 9:30 a.m. September 27 before the State Corporation Commission, 1500 S.W. Arrowhead Road, Topeka, unless otherwise noticed. This list does not include cases previously assigned hearing dates for which parties of record have received notice.

Questions concerning applications for hearing dates should be addressed to the State Corporation Commission, 1500 S.W. Arrowhead Road, Topeka 66604-4027, (913) 271-3196 or 271-3146. Anyone needing special accommodations shall give notice to the commission 10 days prior to the scheduled hearing date.

Your attention is invited to Kansas Administrative Regulation 82-1-228, "Rules of Practice and Procedure Before the Commission."

\*\*\*\*\*

Applications set for September 27, 1994

Application for Transfer of Certificate of Convenience and Necessity:

Becker Corporation ) Docket No. 34,414 M  
131 N. Haverhill Road )  
El Dorado, KS 67042-3180 ) MC ID No. 106971

To:  
DSI Transports, Inc. ) Docket No. 67,034 M  
15600 JF Kennedy Blvd. )  
Suite 600 ) MC ID No. 107029  
Houston, TX 77032

Applicant's Attorney: William Barker, 3401 Harrison, Topeka, KS 66611

*General commodities (except classes A and B explosives, household goods and hazardous materials),*

Between all points and places in Kansas.

\*\*\*\*\*

Application for Certificate of Convenience and Necessity:

Allen Brull, dba ) Docket No. 190,932 M  
Brull Trucking )  
2146 Butterfield )  
Victoria, KS 67671 ) MC ID No. 150951

Applicant's Attorney: None

*General commodities (except hazardous materials and household goods),*

Between all points and places in the state of Kansas.

\*\*\*\*\*

Application for Certificate of Convenience and Necessity:

Cooperative Agricultural ) Docket No. 191,067 M  
Services, Inc., dba )  
CO AG )  
411 W. 2nd )  
Oakley, KS 67748 ) MC ID No. 150834

Applicant's Attorney: William Barker, 3401 Harrison, Topeka, KS 66611

*General commodities (except classes A and B explosives and household goods),*

Between all points and places in the state of Kansas.

\*\*\*\*\*

Application for Certificate of Convenience and Necessity:

Crop Service Center, Inc. ) Docket No. 168,577 M  
1123 Eden Road )  
Abilene, KS 67410 ) MC ID No. 136010

Applicant's Attorney: Clyde Christey, Southwest Plaza Building, Suite 124, 3601 W. 29th, Topeka, KS 66614

*Hay, grain, feed, feed ingredients, salt, seeds, fertilizer (except anhydrous ammonia and ammonium nitrate), building and construction materials, fencing materials and machinery (restricted, however, to transport no hazardous materials),*

Between all points and places in the state of Kansas.

\*\*\*\*\*

Application for Certificate of Convenience and Necessity:

Chris Gilfert, dba ) Docket No. 191,065 M  
Lansing Auto Body )  
510 S. Main )  
Lansing, KS 66043 ) MC ID No. 150832

Applicant's Attorney: None

*Wrecked or disabled vehicles,*

Between all points and places in Leavenworth, Atchison, Jefferson, Wyandotte and Johnson counties, Kansas.

\*\*\*\*\*

Application for Certificate of Convenience and Necessity:

Gaylord Ford and Faye ) Docket No. 191,066 M  
Ford, dba )  
Ford Tank Truck Service )  
Route 2, Box 249 ) MC ID No. 150833  
Newkirk, OK 74647

Applicant's Attorney: William Barker, 3401 Harrison, Topeka, KS 66611

*Salt water, fresh water, and crude oil,*

Between all points and places in the state of Kansas.

\*\*\*\*\*

Application for Certificate of Convenience and Necessity:

Melvin L. White, dba ) Docket No. 164,158 M  
410 W. F )  
Kingman, KS 67068 ) MC ID No. 133138

Applicant's Attorney: None

*Grain, and processed livestock feed,*

Between all points and places in the state of Kansas.

\*\*\*\*\*

Don Carlile  
Administrator  
Transportation Division

Doc. No. 015310

## State of Kansas

## Attorney General

## Opinion No. 94-97

**State Boards, Commissions and Authorities—Public Employees Retirement Systems; Kansas Public Employees Retirement System—Definitions; Final Average Salary; 1994 Senate Bill No. 453. Gloria Timmer, Secretary, Department of Administration, Topeka, August 8, 1994.**

The preclusion against including in the member's final average salary any amount of compensation or salary which is based on a member's purchase or repurchase applies only in those instances in which an application to purchase or repurchase service credit is received by the Kansas Public Employees Retirement System (KPERs) after May 17, 1994, and deductions for such purchase or repurchase will commence after the commencement of the first payroll period in the third quarter. The preclusions enacted through sections 1 and 2 of Chapter 347 of the 1994 Session Laws are not applicable in those instances in which the application to purchase or repurchase a period of service is received by KPERs before or on May 17, 1994. Cited herein: K.S.A. 1993 Supp. 74-4902, as amended by L. 1994, ch. 347, § 1; 74-4915; 74-4919a; 74-4919c; 74-4919h, as amended by L. 1994, ch. 293, § 14; K.S.A. 74-4919i; K.S.A. 1993 Supp. 74-4919j; K.S.A. 74-4919l; K.S.A. 1993 Supp. 74-4952, as amended by L. 1994, ch. 347, § 2; 74-4963; 74-4963a. RDS

## Opinion No. 94-98

**Taxation—Collection and Cancellation of Taxes—Protesting Payment of Taxes; Proceedings for Recovery of Protested Taxes, Limitations; 1994 Amendment Limiting Ability to Protest if Valuation Appeal Pursued; Retroactive Effect. Senator Jerry Moran, 37th District, Hays; Joseph O'Sullivan, Reno County Counselor, Hutchinson, August 10, 1994.**

New subsection (b) of K.S.A. 79-2005 as amended by L. 1994, ch. 275, § 3 may not be applied retroactively in cases where substantive rights would be prejudicially affected. Cited herein: K.S.A. 45-310; 45-311; K.S.A. 1993 Supp. 79-1448; K.S.A. 79-2005, as amended by L. 1994, ch. 275, § 3. JLM

## Opinion No. 94-99

**State Departments; Public Officers and Employees—Public Officers and Employees; Open Public Meetings—Application to the Mid-America Commercialization Corporation. Senator Marge Petty, 18th District, Topeka, August 12, 1994.**

The Mid-America Commercialization Corporation is not a "public body" within the meaning of the KOMA. It is an independent body, not created or given authority by statute, and it is not subordinate to another governmental body. Therefore, the Mid-America Commercialization Corporation is not subject to the requirements of the KOMA. Cited herein: K.S.A. 75-4318. NKF

## Opinion No. 94-100

**Probate—Care and Treatment for Mentally Ill Persons—Persons Who Commit Sexually Violent Of-**

**fenses; Civil Commitment; Agency with Jurisdiction; Parole Board. Charles E. Simmons, Chief Legal Counsel, Department of Corrections, Topeka, August 12, 1994.**

In certain cases the Kansas Parole Board is an "agency with jurisdiction" over the release of inmates as that term is used in L. 1994, ch. 316, the sexually violent predator act. Cited herein: K.S.A. 1993 Supp. 21-4602; 22-3709; L. 1994, ch. 316, § 2 and § 3. CN

## Opinion No. 94-101

**Bonds and Warrants—Cash-Basis Law—Exemptions; Payment Authorized by Vote of Electors, C.E. Russell, Wellington City Attorney, Wellington, August 12, 1994.**

The cash-basis law does not apply to the indebtedness created by an asset purchase contract designed to integrate the city hospital and a private hospital where the voters approved a tax increase for the purpose of financing the integration. Cited herein: K.S.A. 10-1116. MF

## Opinion No. 94-102

**Automobiles and Other Vehicles—General Provisions; Registration of Vehicles—Definitions; Application of Motor Vehicle Laws to ATVs. J. Patrick Hyland, Washington County Attorney, Washington, August 17, 1994.**

K.S.A. 8-128(a)(7) establishes an absolute ban upon the operation of all-terrain vehicles (ATVs) on federal and state highways, including any right of way. ATVs may be operated on public streets and alley ways of second or third class cities during daylight hours and during evening hours if equipped with lights as required for motorcycles. Also, ATVs may be operated on county and township roads pursuant to the same daylight restrictions. Pursuant to K.S.A. 1993 Supp. 8-235(a), an ATV may be operated only by a person with a valid driver's license. If an ATV has three wheels and qualifies as a "motorcycle" it may be operated two abreast pursuant to K.S.A. 8-1595(d). A three-wheeled ATV which qualifies as a "motorcycle" should be registered as such pursuant to K.S.A. 8-127. A person under the age of 18 who operates an ATV which is also a "motorcycle" must wear a helmet pursuant to K.S.A. 8-1598(a). An ATV with four wheels is a "passenger car" and should be registered as such pursuant to K.S.A. 8-127. An ATV is not a "slow-moving vehicle" and need not display an emblem identifying it as such. An ATV is not a "non-highway vehicle" as defined by K.S.A. 8-197. Cited herein: K.S.A. 1993 Supp. 8-126, as amended by L. 1994, ch. 235, § 1; K.S.A. 8-127; 8-128; as amended by L. 1994, ch. 235, § 2; K.S.A. 1993 Supp. 8-143; K.S.A. 8-197; K.S.A. 1993 Supp. 8-235; K.S.A. 8-236; K.S.A. 1993 Supp. 8-237; 8-239; K.S.A. 8-1402; 8-1439; 8-1522; 8-1595; 8-1598; 8-1717; 68-102; 68-413b. JLM

## Opinion No. 94-103

**Constitution of the State of Kansas—Corporations—Cities' Powers of Home Rule; Charter Ordinances-Election. Mike Ward, Butler County Attorney, El Dorado, August 17, 1994.**

The home rule provision of the Kansas Constitution does not require that a city hold an election if a suc-

cessful petition action is brought demanding such an election. However, failure to hold an election renders the charter ordinance ineffective. Cited herein: Kan. Const., art. 12, § 5. MF

**Opinion No. 94-104**

**Public Records, Documents and Information—Records Open to Public—County Appraisers' Records; Repackaging of Database. Representative James E. Lowther, 60th District, Emporia, August 17, 1994.**

The county appraiser's office must provide access to the database maintained in the office, as long as the records requested are open public records and the format is available. The requester of the database may manipulate and repackage the information into a different format for sale as long as the provisions of K.S.A. 21-3914 and K.S.A. 45-220(c) are not violated. Cited herein: K.S.A. 45-216; 45-217, as amended by L. 1994, ch. 293, § 4; 45-220. NKF

**Opinion No. 94-105**

**State Boards, Commissions and Authorities—Board of Examiners for Hearing Aids—Certificate of Registration or Endorsement; Fee and Audiometric Equipment Test Documentation Required; Reciprocity. Representative Clyde Graeber, 41st District, Leavenworth, August 19, 1994.**

The Kansas Board of Hearing Aid Examiners is authorized to provide a reciprocal license to one licensed in another state upon a finding that the other state has licensure requirements equivalent to or higher than those imposed by Kansas. For reasons discussed herein, the standard imposed by statute requires the board to make the determination on an individual basis. Cited herein: K.S.A. 74-5811; 74-5813; 74-5814. GE

**Opinion No. 94-106**

**Elections—Election Crimes—Disorderly Election Conduct; Advisory Election; Assistance of County Election Officer. Gary E. Rebenstorf, Director of Law and City Attorney, Wichita, August 24, 1994.**

An advisory election may be conducted on the date of a primary or general election, provided the polling places for the advisory election are not within 250 feet of the entrance of polling places for a primary or general election. Conduct of an advisory election within 250 feet of polling places from a primary or general election continues to constitute disorderly election conduct unless the advisory election is called pursuant to specific authorization by law or pursuant to the exercise of home rule powers, and unless the county election officer will conduct the advisory election. Election judges and clerks appointed pursuant to K.S.A. 25-2801 may not distribute, collect, or count ballots for an advisory election. Cited herein: K.S.A. 19-3419; 19-3422; 25-2413; 25-2504; 25-2801; 25-2906; L. 1985, ch. 118, § 11; Kan. const., art. 12, § 5. RDS

**Opinion No. 94-107**

**State Departments; Public Officers and Employees—Public Officers and Employees; Open Public Meetings—Application to Kansas Venture Capital,**

**Inc. Representative Doug Lawrence, 9th District, Burlington, August 24, 1994.**

Kansas Venture Capital, Inc., is a for-profit corporation, which operates and manages independently from any governmental control or supervision. Further, it is not a subordinate body to any state agency or local unit of government. Accordingly, Kansas Venture Capital, Inc., is not required to follow the mandates of the Kansas open meetings act. Cited herein: K.S.A. 74-8203; K.S.A. 1993 Supp. 74-8204; K.S.A. 75-4318. NKF

Robert T. Stephan  
Attorney General

Doc. No. 015311

**State of Kansas**

**Department of Transportation**

**Notice to Contractors**

Sealed proposals for the construction of road and bridge work in the following Kansas county will be received at the office of the Chief of Construction and Maintenance, KDOT, Topeka, until 2 p.m. September 14, and then publicly opened:

**District Five—Southcentral**

**Kingman—54-48 K-5622-01, U.S. 54, from the Pratt/Kingman county line, east 18.5 miles to the west Kingman city limits, milling and surfacing. (State Funds)**

Proposals will be issued upon request to all prospective bidders who have been prequalified by the Kansas Department of Transportation on the basis of financial condition, available construction equipment, and experience. Also, a statement of unearned contracts (Form No. 284) must be filed. There will be no discrimination against anyone because of race, age, religion, color, sex, handicap, or national origin in the award of contracts.

Each bidder shall file a sworn statement executed by or on behalf of the person, firm, association or corporation submitting the bid, certifying that such person, firm, association or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the submitted bid. This sworn statement shall be in the form of an affidavit executed and sworn to by the bidder before a person who is authorized by the laws of the state to administer oaths. The required form of the affidavit will be provided by the state to each prospective bidder. Failure to submit the sworn statement as part of the bid approval package will make the bid nonresponsive and not eligible for award consideration.

Plans and specifications for the project may be examined at the office of the respective county clerk or at the KDOT district office responsible for the work.

Michael L. Johnston  
Secretary of Transportation

Doc. No. 015287

## State of Kansas

## State Emergency Response Commission

## Notice of Meeting

The State Emergency Response Commission will meet at 9 a.m. Thursday, September 8, in Room 11 of the State Defense Building, 2800 S.W. Topeka Blvd., Topeka.

Robert C. Harder  
Secretary of Health  
and Environment

Doc. No. 015298

## State of Kansas

Department of Wildlife  
and Parks

## Public Notice

The Kansas Department of Wildlife and Parks has reached an agreement to purchase two tracts of land in Osage County, Kansas. One tract consists of 52.75 acres and is located in the SW<sup>1</sup>/<sub>4</sub> of 7-16-16. The other tract consists of 6.81 acres and is located in the SE<sup>1</sup>/<sub>4</sub> of 12-16-15. The tracts are for recreational use and will remain on the county tax rolls.

Ted Ensley  
Secretary of Wildlife  
and Parks

Doc. No. 015300

## State of Kansas

## Social and Rehabilitation Services

Notice of Hearing on Proposed  
Administrative Regulations

A public hearing will be conducted at 9 a.m. Tuesday, October 4, in the SRS Staff Development Conference Room, 300 S.W. Oakley, Topeka, to consider the adoption of proposed changes in existing rules and regulations on a permanent basis.

This 30-day notice of the public hearing shall constitute a public comment period for the purpose of receiving written public comments on the proposed regulations. All interested parties may submit written comments prior to the hearing to the Secretary of Social and Rehabilitation Services, Room 603-N, Docking State Office Building, 915 S.W. Harrison, Topeka 66612. All interested parties will be given a reasonable opportunity to present their views orally on the adoption of the proposed regulations during the hearing. In order to give all parties an opportunity to express their views, it may be necessary to request each participant to limit oral presentation to five minutes.

The adoption of the regulations will take place at 8 a.m. Thursday, October 20, in the SRS Executive Conference Room 603-N, Docking State Office Building. Teleconference will not be available. The proposed regulations are scheduled to become effective December 30, 1994. A summary of the proposed regulations and their economic impact follows.

The phrase "Federal Mandate" following an item indicates that the change is required by federal policy. Op-

tional changes in regulations related to federal programs are subject to approval by the U.S. Department of Health and Human Services.

## Article 4.—PUBLIC ASSISTANCE PROGRAMS

**30-4-34. Program.** This regulation is being amended to reflect those regulations which will be applicable to persons who are assigned to participate in the state's welfare reform demonstration project. In particular, a set of new regulations are being promulgated to implement the provisions of House Bill 2929, which was approved by the Legislature during the 1994 session. Additional programmatic issues are also incorporated, all of which were developed to support the objectives of welfare reform in Kansas. Those objectives are to:

1. Support and reward work;
2. Promote family stability through greater parental and individual responsibility;
3. Simplify and coordinate program guidelines; and
4. Maintain fiscal integrity and accountability.

These new provisions are incorporated in a waiver which is subject to federal approval with the AFDC, Medicaid, and Food Stamp agencies.

**Economic Impact:** It is expected that in any given month 13,059 families will be affected by one or more provisions of welfare reform. It is not possible to state the average dollar impact on each of these families, as the type of provisions that will affect any given family varies widely. The total cost of this package for FY 1995 is \$3,991,939. However, the impact on the state general fund is a savings of \$991,215 due to the provisions which transfer over 700 families from the state-funded GA program to the federally-matched AFDC program. On an annual basis, the cost of this package in all funds is \$3,366,826, with a savings in the state general fund of \$2,109,696.

**30-4-35w. Assistance process.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain the current requirements on applications, interviews, and timelines for processing applications, plus add a provision on when benefit increases become effective.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-41w. Assistance planning.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain the current requirements on family group, mandatory filing unit, eligible caretaker and legally responsible person definitions as well as the assistance plan but expand the definition of a caretaker.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-50w. Assistance eligibility, general.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain general eligibility requirements.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-52w. Act on own behalf.** The secretary is adopting a new regulation for purposes of implementing the



provisions of the state's welfare reform waiver which maintain current requirements on who can act in one's own behalf with the exception that unemancipated minors must reside with a caretaker to receive assistance.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-53w. Financial eligibility.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current financial eligibility requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-54w. Citizenship, alienage and residence.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements for citizenship, alienage and residence and add a requirement concerning homes owned out of state.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-55w. Cooperation.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements for cooperation but establish a penalty on the family of a caretaker who refuses to cooperate regarding paternity and support.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-58w. Potential employment.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which establish a potential employment penalty for all applicants and recipients.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-59w. Strikes.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements regarding strikes but incorporate the expanded caretaker terminology.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-60w. Living in a public institution.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements regarding living in a public institution and add a provision for denying eligibility to fugitive felons.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-61w. Supplemental Security Income benefits.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements concerning receipt of SSI benefits, but incorporate the expanded caretaker terminology.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-63w. Work program participation.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which establish certain participation requirements for the work program.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-64w. Work Program requirements.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which establish the impact of the work program requirements on eligibility.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-70w. Eligibility factors specific to the ADC program.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which specify ADC eligibility requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-71w. Assignment of support rights in ADC.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current assignment requirements but incorporate the expanded caretaker terminology.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-72w. ADC child.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain the current requirements for an ADC child while adding unborn children to the definition of eligible child and expanding the list of caretakers with whom a child must be living.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-74w. Persons whose need shall be considered with the needs of the ADC child.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain the current requirements while also allowing the caretaker(s) of an unborn child who is the only ADC child to receive ADC.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-90w. Eligibility factors specific to the GA-unrestricted (GAU) program.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which remove families from the GAU categories and adds them to the ADC program.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-100w. Payment standards for budgetary requirements in the ADC, ADC-FC, GA and GA-FC programs.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current payment standard requirements while limiting payments in certain instances to children conceived and born to a recipient.

Economic Impact: See the economic impact statement for 30-4-34.

**30-4-105w. Resources.** The secretary is adopting a new regulation for purposes of implementing the pro-

(continued)

visions of the state's welfare reform waiver which specify the rules affecting resources.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-106w. General rules for consideration of resources, including real property, personal property, and income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current resource requirements and require that the resources of an alien sponsor and the sponsor's spouse be considered in determining eligibility for the alien.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-109w. Personal property.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current personal property requirements and add expanded exemptions for vehicles and burial resources.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-110w. Income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income requirements but allow for a continuous exemption of the earnings of a child in school and delete the consideration of lump sum income.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-111w. Applicable income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which is not time limited, a new child care disregard for a family with two adults where one adult is employed, and a requirement for consideration of the income of an alien sponsor and the sponsor's spouse.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-112. Income exempt from consideration as income and as a cash asset.** This regulation is being amended to remove reference to VA aid and attendance and housebound allowances in the special government program exemption. These benefits will now be exempt in accordance with 30-4-113. (Federal Mandate.)

**Economic Impact:** This change is not expected to have any discernable economic impact.

**30-4-112w. Income exempt from consideration as income and as a cash asset.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income exemptions but provide that the earned income of a child who is a student be exempted as income and as a cash asset and adopt the change referenced in 30-4-112.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-113. Income exempt as applicable income.** This regulation is being amended to exempt VA aid and attendance and housebound allowances as well as VA payments resulting from unusual medical expenses. (Federal Mandate.)

**Economic Impact:** This change is not expected to have any discernable economic impact.

**30-4-113w. Income exempt as applicable income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income exemptions but provide for the exemption of lump sum income and interest income of not more than \$50. In addition to these changes, the regulation also incorporates the new VA exemptions referenced in 30-4-113.

**Economic Impact:** See the economic impact statement for 30-4-34 and 30-4-113.

**30-4-120w. Special needs for applicants and recipients of ADC, ADC-FC, GA, and GA-FC.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current special needs requirements. Special allowances connected with the work programs such as transportation and day care have been moved to 30-4-63w.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-130w. Types of payments.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current provisions but remove the requirements for protective payments.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-4-140w. Payments.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current payment policies but add a penalty for late monthly reports equivalent to 10 percent of the need standard.

**Economic Impact:** See the economic impact statement for 30-4-34.

#### Article 5.—PROVIDER PARTICIPATION, SCOPE OF SERVICES, AND REIMBURSEMENTS FOR THE MEDICAID (MEDICAL ASSISTANCE) PROGRAM

**30-5-71. Co-payment requirements.** This regulation is being expanded to include the new co-pay requirement for Transmed recipients in their 13th through 24th months of eligibility. This new eligibility group was created by House Bill 2929. This group will be subject to 25 percent co-pay as set forth in that legislation. A waiver has been submitted to HCFA which would allow Kansas to exceed the current limit on co-payment amounts and to apply this co-payment to services received by children in this eligibility group.

The co-payment for in-patient hospital services remains the same: \$325 per admission. Since this amount is based upon 50 percent of the average first day's charges, it would be at 25 percent by the second or third day. Not changing the amount will avoid confusion for recipients and for providers.

**Economic Impact:** There will be a cost savings of \$133,000 (\$54,000 SGF during the first six months of this regulation change. During the first full year of the change (full 12 months) there will be a savings of \$281,000 (\$115,000 state general fund). This savings is



incorporated into the fiscal impact statement of the Transitional Medical Program regulation change, K.A.R. 30-6-65w(m).

**30-5-59. Provider participation requirements.** The requirements which must be met in order to be a provider of durable medical equipment in Kansas are being clarified. A DME provider must have a service representative who is available 24 hours per day and a retail outlet which is accessible to the general public during normal business hours.

Economic Impact: This regulation change is administrative in nature and is budget neutral.

#### Article 6.—MEDICAL ASSISTANCE PROGRAM—CLIENT'S ELIGIBILITY FOR PARTICIPATION

**30-6-34. Program.** This regulation is being amended to reflect those regulations which will be applicable to persons who are assigned to participate in the state's welfare reform demonstration project. In particular, a set of new regulations are being promulgated to implement the provisions of House Bill 2929, which was approved by the Legislature during the 1994 session. Further programmatic issues are also incorporated, all of which were developed to support the objectives of welfare reform in Kansas. Those objectives are to:

1. support and reward work;
2. promote family stability through greater parental and individual responsibility;
3. simplify and coordinate program guidelines; and
4. maintain fiscal integrity and accountability.

These new revisions are incorporated in a waiver which is subject to federal approval with the AFDC, Medicaid, and Food Stamp agencies.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-35w. Application process.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain the current requirements on applications, interviews, and timelines for processing applications. It also adds a new provision regarding the month of application for a family member who requests assistance following the approval for all other family members.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-41w. Assistance planning.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements on family group, eligible caretaker, and legally responsible person definitions as well as the assistance plan but expand the definition of a caretaker.

Economic Impact: See the economic impact statement from 30-4-34.

**30-6-50w. Determined eligibles; general eligibility factors.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain general eligibility requirements for determined eligibles.

Economic Impact: See the economic statement for 30-4-34.

**30-6-52w. Act in own behalf.** The secretary is adopting a new regulation for purposes of implementing the

provisions of the state's welfare reform waiver which maintain current requirements on who can act in one's own behalf with the exception that unemancipated minors must reside with a caretaker to receive assistance.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-53w. Financial eligibility.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current financial eligibility requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-54w. Citizenship, alienage and residence.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements for citizenship, alienage and residence and add a new requirement concerning homes owned out of state.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-55w. Cooperation.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements for cooperation but establish a penalty on the family of a caretaker who refuses to cooperate regarding paternity and support.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-56w. Transfer of assets.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver maintain current requirements regarding transfers.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-59w. Strikes.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements regarding strikes, but incorporate the expanded caretaker terminology.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-60w. Living in a public institution.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirements regarding living in a public institution and add a provision for fugitive felons.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-65w. Automatic eligibles.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current requirement for automatic eligibles with the following changes:

(1) Automatic eligibility is eliminated for persons not receiving public assistance because of child support or work penalties.

(2) Automatic eligibility is provided to persons not receiving public assistance due to the late monthly report penalty or the 30 month limit for work program participants.

(continued)

(3) Transitional medical assistance is extended from one year to two years for persons losing eligibility due to employment.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-70w. Medicaid (Title XIX) determined eligibles; eligibility factors specific to aid to dependent children (ADC).** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which specify ADC eligibility requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-72w. ADC child.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain the current requirements for an ADC child while expanding the list of caretakers with whom a child must be living.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-77w. Poverty level pregnant women and children; determined eligibles.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-77. Poverty level pregnant women and children; determined eligibles.** This regulation is being amended to make a technical clarification.

Economic Impact: This change is not expected to have any discernable economic impact.

**30-6-78w. Medicaid (Title XIX) determined eligibles; eligibility factors specific to aid to pregnant women (APW).** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-81w. Medicaid (Title XIX) determined eligibles; eligibility factors specific to children living in Title XIX accredited psychiatric hospitals or intermediate care facilities.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-82w. Technology-assisted child; determined eligibles.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-85w. Medicaid (Title XIX) determined eligibles; eligibility factors specific to the aged, blind, or disabled (AABD).** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-86w. Poverty level and low income medicare beneficiaries; determined eligibles.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-87w. Poverty level working disabled individuals, determined eligibles.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-94w. Medical assistance (Title XIX) determined eligibles; eligibility factors specific to persons living in nursing facilities for mental health (NF-MH).** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current program requirements.

Economic Impact: See the economic impact statement for 30-4-34.

**30-6-103. Determined eligibles; protected income levels.** This regulation is being amended to increase the one-person protected income level for persons in independent living and in the home- and community-based services program from \$446 to \$460 per month. This is based on a projected 3 percent cost of living adjustment in the Supplemental Security Income (SSI) program which will become effective January 1, 1995. (Federal Mandate.)

Economic Impact: This change in the one-person level is not expected to have any discernible economic impact. This is due to the relatively small number of households affected by a change in the one-person protected income level. These households are primarily non-institutionalized adults who receive Social Security benefits and children living with a caretaker other than a parent. The primary source of income for these children is also Social Security benefits. As the one-person protected income level is being increased by 3 percent, this matches the 3 percent Social Security cost-of-living adjustment. Therefore, neither the client nor the department is benefited or disadvantaged by this change.

This regulation is being further amended to increase the income standard used for low income Medicare beneficiaries from 110 percent to 120 percent of the federal poverty level. (Federal Mandate.)

Economic Impact: Annual increase of expenditures of \$387,240 (158,768 state general funds).

**30-6-103w. Determined eligibles; protected income levels.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income level requirements and adopt the changes specified in 30-6-103.

Economic Impact: See the economic impact statement for 30-4-34 and 30-6-103.

**30-6-105w. Resources.** The secretary is adopting a new regulation for purposes of implementing the pro-

visions of the state's welfare reform waiver which specify the rules affecting resources.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-6-106w. General rules for consideration of resources, including real property, personal property, and income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current resource requirements and require that the resources of an alien sponsor and the sponsor's spouse be considered in determining eligibility for the alien.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-6-107. Property exemption.** This regulation is being amended to reflect a technical change.

**Economic Impact:** This change is not expected to have any discernable economic impact.

**30-6-107w. Property exemption.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current property ownership rules.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-6-109w. Personal property.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current personal property requirements and add expanded exemptions for vehicles and burial resources.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-6-110w. Income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income requirements but eliminate the consideration of lump sum income.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-6-111w. Applicable income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income rules and include a new requirement for consideration of the income of an alien sponsor and the sponsor's spouse.

**Economic Impact:** See the economic impact statement for 30-4-34.

**30-6-112. Income exempt from consideration as income and as a cash asset.** This regulation is being amended to remove reference to VA aid and attendance, and housebound allowances in the special government program exemption. These benefits will now be exempt in accordance with 30-6-113. (Federal Mandate.)

**Economic Impact:** See the economic impact statement for 30-6-113.

**30-6-112w. Income exempt from consideration as income and as a cash asset.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income exemptions but provide that the earned income of a child who is a student be exempted and adopt the change referenced in 30-6-112.

**Economic Impact:** See the economic impact statement for 30-6-113.

**30-6-113. Income exempt as applicable income.** This regulation is being amended to add exemptions for VA aid and attendance and housebound allowances, and for VA payments resulting from unusual medical expenses. (Federal Mandate.)

**Economic Impact:** Total increase of expenditures of \$1,560,000 (\$639,600 state general fund).

**30-6-113w. Income exempt as applicable income.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current income exemptions but provide for the exemption of lump sum income and interest income of not more than \$50. In addition, this regulation also incorporates the new VA exemptions referenced in 30-6-113.

**Economic Impact:** See the economic impact statement for 30-4-34 and 30-6-113.

**30-6-150w. Estate recovery.** The secretary is adopting a new regulation for purposes of implementing the provisions of the state's welfare reform waiver which maintain current estate recovery requirements.

**Economic Impact:** See the economic impact statement for 30-4-34.

#### Article 10.—ADULT CARE HOME PROGRAM

**30-10-7. Screening, evaluation, and referral for nursing facilities.** Wording in this regulation is being changed to conform to federal Preadmission Screening and Annual Resident Review (PASARR) regulation. Individuals entering a nursing facility whose stay is expected to be fewer than 30 days are exempt from preadmission screening if they are entering the nursing facility from a hospital. The phase limiting this exemption from screening only to those entering from a hospital was inadvertently omitted from this regulation.

**Economic Impact:** None.

Copies of the regulations and their economic impact statements may be obtained from the Office of the Secretary, Room 603-N, Docking State Office Building, Topeka 66612, (913) 296-3969.

Any individual with a disability may request accommodation in order to participate in the public hearing and may request the proposed regulations and economic impact statements in an accessible format. Requests for accommodation should be made at least five working days in advance of the hearing by contacting Barbara Conant at (913) 296-3271, or by calling the Kansas Relay Center at 1-800-766-3777.

The public is invited to this meeting. Telephone hook-ups are provided at the following locations of Social and Rehabilitation Services offices: Chanute, Emporia, Garden City, Hays, Hutchinson, Kansas City, Lawrence, Manhattan, Olathe, Salina, Topeka (area office), and Wichita.

Donna L. Whiteman  
Secretary of Social and  
Rehabilitation Services

Doc. No. 015299

State of Kansas

Office of the State Treasurer

Notice of Investment Rates

The following rates are published in accordance with K.S.A. 1993 Supp. 75-4210. These rates and their uses are defined in K.S.A. 75-4201(1), 12-1675(b)(c)(d) and 75-4209(a)(1)(B), as amended.

Effective 9-5-94 through 9-11-94

Term	Rate
0-90 days	4.69%
3 months	4.65%
6 months	5.04%
9 months	5.33%
12 months	5.55%
18 months	5.91%
24 months	6.17%
36 months	6.48%
48 months	6.71%

Sally Thompson  
State Treasurer

Doc. No. 015314

(Published in the Kansas Register, September 1, 1994.)

District Court of Neosho County, Kansas  
Sitting at Chanute

City of Chanute, Kansas and Bank of Commerce, Chanute, Kansas	Plaintiffs	]	
vs.		]	Case No.
Irene Polson, et al.	Defendants	]	88 C 84 CH
and		]	
In the matter of the Final Settlement of the Neosho Paper Trust		]	

Notice of Hearing

The State of Kansas to the holders of Industrial Revenue Bonds issued by the City of Chanute, Kansas, Series 1983-A, New Era Packaging, Inc., also known as Neosho Paper Products, and to the Beneficiaries of the Neosho Paper Trust and all other persons concerned:

A hearing will be conducted at 10 a.m. September 15, 1994, at the Neosho County Judicial Center in Chanute, Neosho County, Kansas, to review and approve the final accounting of the Trustee of the Neosho Paper Trust, and to enter such orders as may be necessary to make final distribution to beneficiaries of the Trust.

Trust beneficiaries who have registered with the Trustee will receive a copy of the final accounting by mail prior to the final hearing. All other interested persons should contact Kurt F. Kluin, attorney for the class of senior bondholders and primary beneficiaries of the Neosho Paper Trust, at P.O. Drawer G, Chanute, KS 66720, (316) 431-1601, to receive a copy of the accounting.

Neosho County District Court  
Chanute, Kansas

Doc. No. 015260

State of Kansas

Criminal Justice Coordinating Council

Notice of Meeting

The Kansas Criminal Justice Coordinating Council will meet at 9 a.m. Wednesday, September 7, in the Governor's Office, second floor, State Capitol, 300 S.W. 10th, Topeka.

Lisa Moots  
Executive Director

Doc. No. 015304

State of Kansas

Secretary of State

Notice of Hearing on Proposed  
Administrative Regulations

A public hearing will be conducted at 9:30 a.m. Monday, October 3, in the conference room of the Secretary of State's Office, Room 233-N, State Capitol, 300 S.W. 10th Ave., Topeka, to consider proposed amended Kansas Administrative Regulation 7-23-13, pertaining to the central voter registration database maintained by the Secretary of State's office. This regulation is proposed for adoption on a permanent basis.

K.A.R. 7-23-13 specifies the format for voter registration data, and also prescribes the dates when voter registration data must be sent to the Secretary of State. The Secretary of State's office will be required to acquire hardware and software, and counties will be required to convert voter registration data and acquire software. Each unit of government will incur postage costs and will absorb personnel costs. Counties will also see a reduction in revenue from the sale of voter registration data. The amount will vary from county to county.

This 30-day notice of public hearing shall constitute a public comment period for the purpose of receiving written public comments on the proposed regulation. Comments may be submitted prior to the hearing to Jenny Chaulk Wentz, Legal Counsel, Office of the Secretary of State, 2nd Floor, State Capitol, 300 S.W. 10th Ave., Topeka 66612.

All interested parties will be given a reasonable opportunity at the hearing to present their views. It may be necessary to request each participant to limit any oral presentation to five minutes. Any individual with a disability may request accommodation in order to participate in the public hearing and may request the proposed regulation and economic impact statement in an accessible format. Requests for accommodation should be made at least five working days in advance of the hearing by contacting Barbara Nemecek at (913) 296-2114.

Copies of the regulation and its fiscal impact statement may be obtained at the address above or by calling (913) 296-2114.

Bill Graves  
Secretary of State

Doc. No. 015290

## State of Kansas

## Secretary of State

Certificate of the State Board  
of Canvassers

Primary Election, August 2, 1994

We the undersigned, constituting the State Board of Canvassers of the State of Kansas, do hereby certify that we have examined the certified abstract of votes on file in the office of the Secretary of State, as prescribed by law, and we find the statement given therein of the whole number of votes cast for several candidates for the various National and State offices therein named is true and correct as shown by such abstract.

We further certify that each of the following named persons is entitled to a place on the official ballot as the candidate of his or her respective party, for the respective offices, at the General Election to be held on November 8, 1994, by virtue of receiving the greatest number of votes cast at said Primary Election for the various offices.

**U.S. House of Representatives, District 1**

Terry L. Nichols, Topeka, Democratic  
Pat Roberts, Dodge City, Republican

**U.S. House of Representatives, District 2**

John Carlin, Topeka, Democratic  
Sam Brownback, Topeka, Republican

**U.S. House of Representatives, District 3**

Judy Hancock, Prairie Village, Democratic  
Jan Meyers, Overland Park, Republican

**U.S. House of Representatives, District 4**

Dan Glickman, Wichita, Democratic  
Todd Tiaht, Goddard, Republican

**Governor/Lieutenant Governor**

Jim Slattery, Topeka, and  
Carol H. Sader, Prairie Village, Democratic  
Bill Graves, Salina, and  
Sheila Frahm, Colby, Republican

**Secretary of State**

Fran Lee, Topeka, Democratic  
Ron Thornburgh, Topeka, Republican

**Attorney General**

Richard Schodorf, Wichita, Democratic  
Carla J. Stovall, Topeka, Republican

**Commissioner of Insurance**

Kathleen Sebelius, Topeka, Democratic  
Ronald L. (Ron) Todd, Lawrence, Republican

**State Treasurer**

Sally Thompson, Topeka, Democratic  
Randy Duncan, Salina, Republican

**Kansas House of Representatives, District 1**

Thomas L. Wade, Galena, Democratic  
Tim Shallenburger, Baxter Springs, Republican

**Kansas House of Representatives, District 2**

Robert "Bob" Grant, Cherokee, Democratic  
Dee Yoh, Pittsburg, Republican

**Kansas House of Representatives, District 3**

Ed McKechnie, Pittsburg, Democratic

**Kansas House of Representatives, District 4**

Maybelle Mertz-Kent, Fort Scott, Democratic  
Andrew Howell, Fort Scott, Republican

**Kansas House of Representatives, District 5**

Bill Feuerborn, Garnett, Democratic  
John Cundy, Garnett, Republican

**Kansas House of Representatives, District 6**

Roger L. Coltrin, Louisburg, Democratic  
Jene Vickrey, Louisburg, Republican

**Kansas House of Representatives, District 7**

Vernon W. Correll, Oswego, Democratic  
Dick Ney, Parsons, Republican

**Kansas House of Representatives, District 8**

Richard R. Reinhardt, Erie, Democratic  
Gerald D. Turner, Thayer, Republican

**Kansas House of Representatives, District 9**

Larry E. Myers, Burlington, Democratic  
Douglass R. Lawrence, Burlington, Republican

**Kansas House of Representatives, District 10**

Gene Ramsey, Ottawa, Democratic  
Ralph M. Tanner, Baldwin City, Republican

**Kansas House of Representatives, District 11**

Jim D. Garner, Coffeyville, Democratic

**Kansas House of Representatives, District 12**

Robert E. Greenwood, Jr., Independence, Democratic  
Cindy Empson, Independence, Republican

**Kansas House of Representatives, District 13**

Rochelle Beach Chronister, Neodesha, Republican

**Kansas House of Representatives, District 14**

Kay O'Connor, Olathe, Republican

**Kansas House of Representatives, District 15**

George E. Collins, Olathe, Democratic  
John M. Toplikar, Olathe, Republican

**Kansas House of Representatives, District 16**

Mark D. Render, Overland Park, Democratic  
Tim Carmody, Overland Park, Republican

**Kansas House of Representatives, District 17**

Dana Zarad Rieke, Shawnee, Democratic  
Lisa L. Benlon, Shawnee, Republican

**Kansas House of Representatives, District 18**

Darrel Hawk, Shawnee, Democratic  
Phill Kline, Shawnee, Republican

**Kansas House of Representatives, District 19**

G. Gordon Atcheson, Overland Park, Democratic  
Phil Kline, Overland Park, Republican

**Kansas House of Representatives, District 20**

Barbara Sullivan, Overland Park, Democratic  
Gary Merritt, Overland Park, Republican

**Kansas House of Representatives, District 21**

Barbara P. Allen, Prairie Village, Republican

**Kansas House of Representatives, District 22**

Bryan Mober, Prairie Village, Democratic (write-in)  
Britt Nichols, Prairie Village, Republican

**Kansas House of Representatives, District 23**

Lori L. Majure, Merriam, Democratic  
Cliff Franklin, Merriam, Republican

(continued)



- Kansas House of Representatives, District 24**  
Tom Thompson, Mission, Democratic  
Robert "Bob" Tomlinson, Roeland Park, Republican
- Kansas House of Representatives, District 25**  
Al Lane, Mission Hills, Republican
- Kansas House of Representatives, District 26**  
Vicent K. Snowbarger, Olathe, Republican
- Kansas House of Representatives, District 27**  
Phyllis Gilmore, Olathe, Republican
- Kansas House of Representatives, District 28**  
David Adkins, Leawood, Republican
- Kansas House of Representatives, District 29**  
Wendy Tatro, Overland Park, Democratic  
Dennis M. Wilson, Overland Park, Republican
- Kansas House of Representatives, District 30**  
Andy Huckaba, Lenexa, Democratic  
Gary Haulmark, Lenexa, Republican
- Kansas House of Representatives, District 31**  
Pat Huggins Pettet, Kansas City, Democratic
- Kansas House of Representatives, District 32**  
Herman G. Dillon, Kansas City, Democratic  
Laura L. Hock, Kansas City, Republican
- Kansas House of Representatives, District 33**  
Richard J. "Dick" Edlund, Kansas City, Democratic
- Kansas House of Representatives, District 34**  
David Haley, Kansas City, Democratic
- Kansas House of Representatives, District 35**  
Broderick Henderson, Kansas City, Democratic
- Kansas House of Representatives, District 36**  
Doug Spangler, Kansas City, Democratic
- Kansas House of Representatives, District 37**  
Bill Reardon, Kansas City, Democratic
- Kansas House of Representatives, District 38**  
Jim Long, Kansas City, Democratic
- Kansas House of Representatives, District 39**  
John W. Johnson, Bonner Springs, Democratic  
Ray L. Cox, Bonner Springs, Republican
- Kansas House of Representatives, District 40**  
L. Candy Ruff, Leavenworth, Democratic  
Paul Johnson, Leavenworth, Republican
- Kansas House of Representatives, District 41**  
Clyde D. Graeber, Leavenworth, Republican
- Kansas House of Representatives, District 42**  
Michael D. Gibbens, Tonganoxie, Democratic  
Kenny A. Wilk, Lansing, Republican
- Kansas House of Representatives, District 43**  
Norma L. Thorp, DeSoto, Democratic  
John Ballou, Gardner, Republican
- Kansas House of Representatives, District 44**  
Barbara W. Ballard, Lawrence, Democratic
- Kansas House of Representatives, District 45**  
Forrest L. Swall, Lawrence, Democratic  
Tom Sloan, Lawrence, Republican
- Kansas House of Representatives, District 46**  
Troy Findley, Lawrence, Democratic  
Eric Schmidt, Lawrence, Republican
- Kansas House of Representatives, District 47**  
Charlie Geist, Grantville, Democratic  
Joann Flower, Oskaloosa, Republican
- Kansas House of Representatives, District 48**  
Jerry Henry, Cummings, Democratic
- Kansas House of Representatives, District 49**  
Galen Weiland, Bendena, Democratic  
Artie Lucas, Highland, Republican
- Kansas House of Representatives, District 50**  
Rodney Stauffer, Holton, Democratic  
Becky J. Hutchins, Holton, Republican
- Kansas House of Representatives, District 51**  
Jane Cohen Greene, Topeka, Democratic  
Greg A. Packer, Topeka, Republican
- Kansas House of Representatives, District 52**  
Jim Sovanski, Topeka, Democratic  
Tom Bradley, Topeka, Republican
- Kansas House of Representatives, District 53**  
Dixie E. Toelkes, Topeka, Democratic  
Bob Willard, Topeka, Republican
- Kansas House of Representatives, District 54**  
Bryan M. Baier, Topeka, Democratic  
Doug Mays, Topeka, Republican
- Kansas House of Representatives, District 55**  
Annie Kuether, Topeka, Democratic  
Jill Grant, Topeka, Republican
- Kansas House of Representatives, District 56**  
Nancy Kirk, Topeka, Democratic  
Eugene Shoemaker, Topeka, Republican
- Kansas House of Representatives, District 57**  
Vaughn L. Flora, Topeka, Democratic  
Carol J. Schimmel, Topeka, Republican
- Kansas House of Representatives, District 58**  
Rocky Nichols, Topeka, Democratic  
Jeanne L. Gawdun, Topeka, Republican
- Kansas House of Representatives, District 59**  
Roger A. Mersmann, Osage City, Democratic  
Joe D. Humerickhouse, Osage City, Republican
- Kansas House of Representatives, District 60**  
Arthur J. Tabares, Emporia, Democratic  
James E. Lowther, Emporia, Republican
- Kansas House of Representatives, District 61**  
Don M. Rezac, Emmett, Democratic  
Edward W. Pugh, Wamego, Republican
- Kansas House of Representatives, District 62**  
James E. Butler, Manhattan, Democratic  
Kent Glassock, Manhattan, Republican
- Kansas House of Representatives, District 63**  
Bruce F. Larkin, Baileyville, Democratic  
Joe E. Harter, Bern, Republican
- Kansas House of Representatives, District 64**  
Steve Lloyd, Clay Center, Republican
- Kansas House of Representatives, District 65**  
Patrick Herron, Junction City, Democratic  
Gerald G. Geringer, Junction City, Republican
- Kansas House of Representatives, District 66**  
Sheila Hochhauser, Manhattan, Democratic  
Ann Stevens, Manhattan, Republican

- Kansas House of Representatives, District 67**  
Allan White, Salina, Democratic  
Joe Kejr, Brookville, Republican
- Kansas House of Representatives, District 68**  
Steve Wiard, Council Grove, Democratic  
Shari Weber, Herington, Republican
- Kansas House of Representatives, District 69**  
Carolyn Weinhold, Salina, Democratic  
Deena L. Horst, Salina, Republican
- Kansas House of Representatives, District 70**  
Richard W. Riemer, Hillsboro, Democratic  
Duane Goossen, Goessel, Republican
- Kansas House of Representatives, District 71**  
Eloise Lynch, Salina, Democratic  
Carol Edward Beggs, Salina, Republican
- Kansas House of Representatives, District 72**  
Donna Neufeld, North Newton, Democratic  
Garry Boston, Newton, Republican
- Kansas House of Representatives, District 73**  
Jayne Norlin, Lindsborg, Democratic  
Delbert Crabb, McPherson, Republican
- Kansas House of Representatives, District 74**  
Cedrick P. Boehr, Whitewater, Republican
- Kansas House of Representatives, District 75**  
Karen Hasting, El Dorado, Democratic  
William G. Mason, El Dorado, Republican
- Kansas House of Representatives, District 76**  
Ray Luthi, Lamont, Democratic  
Rex Crowell, Longton, Republican
- Kansas House of Representatives, District 77**  
Daryl G. Glamann, Sr., Augusta, Democratic  
Kenneth R. King, Leon, Republican
- Kansas House of Representatives, District 78**  
Greta Hall Goodwin, Winfield, Democratic
- Kansas House of Representatives, District 79**  
Joe D. Shriver, Arkansas City, Democratic  
Danny P. Jones, Arkansas City, Republican
- Kansas House of Representatives, District 80**  
Robert H. Miller, Wellington, Republican
- Kansas House of Representatives, District 81**  
Norm Cooley, Haysville, Democratic  
Ted Powers, Mulvane, Republican
- Kansas House of Representatives, District 82**  
Elizabeth Baker, Derby, Democratic  
Don V. Myers, Derby, Republican
- Kansas House of Representatives, District 83**  
Lois A. Lynn, Wichita, Democratic  
Jo Ann Pottorff, Wichita, Republican
- Kansas House of Representatives, District 84**  
Jonathan "Joe" Wells, Wichita, Democratic  
John A. Bauer, Wichita, Republican
- Kansas House of Representatives, District 85**  
Rich Lahti, Bel Aire, Democratic  
Tony Powell, Wichita, Republican
- Kansas House of Representatives, District 86**  
Henry M. Helgerson, Jr., Wichita, Democratic  
J. Montgomery Jessup, Wichita, Republican
- Kansas House of Representatives, District 87**  
Barb Travis Fuller, Wichita, Democratic  
Mike Farmer, Wichita, Republican
- Kansas House of Representatives, District 88**  
Gwen Welshimer, Wichita, Democratic  
Russell B. Purser, Wichita, Republican
- Kansas House of Representatives, District 89**  
Ruby Gilbert, Wichita, Democratic
- Kansas House of Representatives, District 90**  
Bill Stanhope, Colwich, Democratic  
Darlene Cornfield, Valley Center, Republican
- Kansas House of Representatives, District 91**  
Nelson Van Fleet, Wichita, Democratic  
Brenda Landwehr, Wichita, Republican
- Kansas House of Representatives, District 92**  
Bob Holland, Wichita, Democratic  
Belva Ott, Wichita, Republican
- Kansas House of Representatives, District 93**  
Daniel J. Thimesch, Cheney, Democratic  
Carl H. Koster, Jr., Cheney, Republican
- Kansas House of Representatives, District 94**  
Ben Huie, Wichita, Democratic  
Les Donovan, Wichita, Republican
- Kansas House of Representatives, District 95**  
Tom Sawyer, Wichita, Democratic
- Kansas House of Representatives, District 96**  
George R. Dean, Wichita, Democratic  
Cindy Padgham, Wichita, Republican
- Kansas House of Representatives, District 97**  
Darrel M. Webb, Wichita, Democratic  
Dale Swenson, Wichita, Republican
- Kansas House of Representatives, District 98**  
Joel Rutledge, Wichita, Democratic  
Mitch Faroh, Wichita, Republican
- Kansas House of Representatives, District 99**  
Mark Love, Wichita, Democratic  
Susan Wagel, Wichita, Republican
- Kansas House of Representatives, District 100**  
Lucy Shifton, Wichita, Democratic  
Carlos Mayans, Wichita, Republican
- Kansas House of Representatives, District 101**  
Robert E. Krehbiel, Pretty Prairie, Democratic  
Steven Graber, Hutchinson, Republican
- Kansas House of Representatives, District 102**  
Janice L. Pauls, Hutchinson, Democratic
- Kansas House of Representatives, District 103**  
Sabrina Standifer, Wichita, Democratic
- Kansas House of Representatives, District 104**  
Jesse Harder, Buhler, Democratic  
Michael R. (Mike) O'Neal, Hutchinson, Republican
- Kansas House of Representatives, District 105**  
Richard Alldritt, Harper, Democratic  
Johnny Gaffney, Anthony, Republican
- Kansas House of Representatives, District 106**  
Mary Greene, Manhattan, Democratic  
Bill Bryant, Washington, Republican

(continued)

- Kansas House of Representatives, District 107**  
Joann Freeborn, Concordia, Republican
- Kansas House of Representatives, District 108**  
Dennis McKinney, Greensburg, Democratic
- Kansas House of Representatives, District 109**  
Clay Aurand, Courtland, Republican
- Kansas House of Representatives, District 110**  
Dorothy E. Schuckman, LaCrosse, Democratic  
Carol Dawson, Russell, Republican
- Kansas House of Representatives, District 111**  
Delbert L. Gross, Hays, Democratic  
Scott Schwab, Hays, Republican
- Kansas House of Representatives, District 112**  
John Edmonds, Great Bend, Republican
- Kansas House of Representatives, District 113**  
Jack Wempe, Little River, Democratic  
Mary E. Bolton, Lyons, Republican
- Kansas House of Representatives, District 114**  
Melvin G. Minor, Stafford, Democratic  
Gale E. Britton, Lewis, Republican
- Kansas House of Representatives, District 115**  
E. Dean Shelor, Ingalls, Democratic  
Melvin J. Neufeld, Ingalls, Republican
- Kansas House of Representatives, District 116**  
Don C. Smith, Dodge City, Democratic  
Betty K. Anglin, Dodge City, Republican
- Kansas House of Representatives, District 117**  
Robin L. Jennison, Healy, Republican
- Kansas House of Representatives, District 118**  
Gayle Mollenkamp, Russell Springs, Republican
- Kansas House of Representatives, District 119**  
Laura McClure, Osborne, Democratic  
Art Howell, Lincoln, Republican
- Kansas House of Representatives, District 120**  
Barbara Ewing, St. Francis, Democratic  
Fred Gatlin, Atwood, Republican
- Kansas House of Representatives, District 121**  
Ned Whitmer, Goodland, Democratic  
Jim Morrison, Colby, Republican
- Kansas House of Representatives, District 122**  
R. Jane Overton, Syracuse, Democratic  
Gary K. Hayzlett, Lakin, Republican
- Kansas House of Representatives, District 123**  
David J. Heinemann, Garden City, Republican
- Kansas House of Representatives, District 124**  
Eugene L. Shore, Johnson, Republican
- Kansas House of Representatives, District 125**  
Carl D. Holmes, Liberal, Republican
- District Court Judge, District 13, Division 1**  
John E. Sanders, Eureka, Republican
- District Court Judge, District 14, Division 1**  
Richard A. Medley, Coffeyville, Democratic  
Rawley J. (Judd) Dent, Independence, Republican
- District Court Judge, District 14, Division 2**  
Jack L. Lively, Coffeyville, Republican
- District Court Judge, District 16, Division 1**  
Daniel L. Love, Dodge City, Democratic
- District Court Judge, District 18, Division 4**  
David W. Kennedy, Wichita, Republican
- District Court Judge, District 18, Division 5**  
Greg Waller, Wichita, Democratic
- District Court Judge, District 18, Division 7**  
David W. Dewey, Wichita, Republican
- District Court Judge, District 18, Division 8**  
Tim Lahey, Wichita, Republican
- District Court Judge, District 18, Division 14**  
Rebecca L. Pilshaw, Wichita, Democratic  
Warren M. Wilbert, Wichita, Republican
- District Court Judge, District 18, Division 15**  
Paul Buchanan, Wichita, Republican
- District Court Judge, District 18, Division 17**  
Tom Malone, Wichita, Democratic
- District Court Judge, District 18, Division 18**  
James G. Beasley, Wichita, Republican
- District Court Judge, District 18, Division 19**  
Jim Puntch, Wichita, Democratic  
Mark A. Vining, Wichita, Republican
- District Court Judge, District 19, Division 3**  
J. Michael Smith, Arkansas City, Republican
- District Court Judge, District 20, Division 1**  
Barry A. Bennington, St. John, Democratic
- District Court Judge, District 22, Division 1**  
James A. Patton, Hiawatha, Republican
- District Court Judge, District 24**  
J. Byron Meeks, Kinsley, Republican
- District Court Judge, District 26, Division 1**  
Tom R. Smith, Liberal, Republican
- District Court Judge, District 27, Division 1**  
Richard J. Rome, Hutchinson, Democratic  
Victoria M. Kumorowski, Hutchinson, Republican
- District Court Judge, District 27, Division 3**  
Steven R. Becker, Buhler, Republican
- District Court Judge, District 29, Division 2**  
Thomas L. Boeding, Kansas City, Democratic
- District Court Judge, District 29, Division 3**  
John J. McNally, Kansas City, Democratic
- District Court Judge, District 29, Division 4**  
George A. Groneman, Kansas City, Democratic
- District Court Judge, District 29, Division 5**  
J. Dexter Burdette, Kansas City, Democratic
- District Court Judge, District 29, Division 6**  
Cordell D. Meeks, Jr., Kansas City, Democratic
- District Court Judge, District 29, Division 10**  
Matthew G. Podrebarac, Kansas City, Democratic
- District Court Judge, District 29, Division 11**  
Bill D. Robinson, Jr., Kansas City, Democratic
- District Court Judge, District 29, Division 12**  
Philip L. Sieve, Kansas City, Democratic
- District Court Judge, District 29, Division 15**  
Michael G. Moroney, Kansas City, Democratic



- District Magistrate Judge, District 17, Division 3  
Wilda June Brown, Norton, Republican
- District Magistrate Judge, District 22, Division 3  
James B. (Jim) O'Connor, Seneca, Democratic
- District Magistrate Judge, District 23, Division 1  
Lawrence H. Litson, Gove, Republican
- District Magistrate Judge, District 26, Division 4  
Mary P. (Polly) Plummer, Johnson, Democratic
- State Board of Education Member, District 1  
Mildred G. McMillon, Tonganoxie, Democratic
- State Board of Education Member, District 3  
Ruth Ann Hackler, Olathe, Democratic  
Kevin P. Gilmore, Olathe, Republican
- State Board of Education Member, District 5  
I. B. Sonny Rundell, Syracuse, Republican
- State Board of Education Member, District 7  
Carol Becker, Sedgwick, Democratic  
Wanda Morrison, Hutchinson, Republican

- State Board of Education Member, District 9  
Lawrence (Larry) Thomas, Weir, Democratic  
Mandy Specht, Iola, Republican
- State Board of Education Member, District 10  
Rosemarie "Shelly" Wise, Cheney, Democratic  
Steve E. Abrams, Arkansas City, Republican

In testimony whereof, we have hereunto subscribed our names this 24th day of August, A.D. 1994.

Joan Finney  
Governor  
Bill Graves  
Secretary of State  
Robert T. Stephan  
Attorney General

Doc. No. 015296

(Published in the Kansas Register, September 1, 1994.)

**Summary Notice of Bond Sale  
Greenwood County, Kansas  
\$300,000  
General Obligation Bonds  
Series 1994-1**

-(General obligation bonds payable from unlimited ad valorem taxes)

**Sealed Bids**

Subject to the notice of bond sale dated August 25, 1994, sealed bids will be received by the clerk of Greenwood County, Kansas (the issuer), on behalf of the governing body at the Greenwood County Courthouse, Eureka, KS 67045, (316) 583-8121, until 11 a.m. C.D.T. on September 12, 1994, for the purchase of \$300,000 principal amount of General Obligation Bonds, Series 1994-1. No bid of less than the entire par value of the bonds and accrued interest thereon to the date of delivery will be considered.

**Bond Details**

The bonds will consist of fully registered bonds in the denomination of \$5,000 or any integral multiple thereof. The bonds will be dated October 1, 1994, and will become due on October 1 in the years as follows:

Year	Principal Amount
1996	\$40,000
1997	60,000
1998	65,000
1999	65,000
2000	70,000

The bonds will bear interest from the date thereof at rates to be determined when the bonds are sold as hereinafter provided, which interest will be payable semi-annually on April 1 and October 1 in each year, beginning on April 1, 1996.

**Paying Agent and Bond Registrar**

Kansas State Treasurer, Topeka, Kansas.

**Good Faith Deposit**

Each bid shall be accompanied by a cashier's or certified check drawn on a bank located in the United States of America in the amount of \$6,000 (2 percent of the principal amount of the bonds).

**Delivery**

The issuer will pay for printing the bonds and will deliver the same properly prepared, executed and registered without cost to the successful bidder on or before October 3, 1994; at such bank or trust company in the state of Kansas or Kansas City, Missouri, as may be specified by the successful bidder.

**Assessed Valuation and Indebtedness**

The equalized assessed tangible valuation for computation of bonded debt limitations for the year 1994 is \$50,625,207. The total general obligation indebtedness of the issuer as of the date of the bonds, including the bonds being sold, is \$300,000.

**Approval of Bonds**

The bonds will be sold subject to the legal opinion of Gilmore & Bell, P.C., Wichita, Kansas, bond counsel, whose approving legal opinion as to the validity of the bonds will be furnished and paid for by the issuer, printed on the bonds and delivered to the successful bidder as and when the bonds are delivered.

**Additional Information**

Additional information regarding the bonds may be obtained from the clerk, (316) 583-8121.

Dated August 25, 1994.

Greenwood County, Kansas

Doc. No. 015307

(Published in the Kansas Register, September 1, 1994.)

**Summary Notice of Bond Sale****City of Salina, Kansas****\$1,230,000****Combined Water and Sewage System  
Improvement Revenue Bonds, Series 1994-B****Sealed Bids**

Subject to the notice of bond sale and preliminary official statement dated August 22, 1994, sealed bids will be received by the city clerk of the city of Salina, Kansas, on behalf of the governing body at the City/County Building, Room 206, 300 W. Ash, Salina, Kansas, until 2 p.m. C.D.T. on September 12, 1994, for the purchase of \$1,230,000 principal amount of Combined Water and Sewage System Improvement Revenue Bonds, Series 1994-B.

**Bond Details**

The bonds will consist of fully registered bonds in the denomination of \$5,000 or any integral multiple thereof. The bonds will be dated October 1, 1994, and will become due on October 1 in the years as follows, except as subject to optional early redemption as provided in the notice of bond sale:

Year	Principal Amount
1995	\$ 20,000
1996	35,000
1997	35,000
1998	40,000
1999	40,000
2000	45,000
2001	50,000
2002	50,000
2003	55,000
2004	55,000
2005	60,000
2006	65,000
2007	70,000
2008	70,000
2009	75,000
2010	80,000
2011	85,000
2012	95,000
2013	100,000
2014	105,000

The bonds will bear interest from the date thereof at rates to be determined when the bonds are sold as hereinafter provided, which interest will be payable semi-annually on April 1 and October 1 in each year, beginning on April 1, 1995.

**Paying Agent and Bond Registrar**

Kansas State Treasurer, Topeka, Kansas.

**Good Faith Deposit**

Each bid shall be accompanied by a cashier's or certified check drawn on a bank located in the United States of America in the amount of \$24,600 (2 percent of the principal amount of the bonds).

**Delivery**

The city will pay for printing the bonds and will deliver the same properly prepared, executed and registered without cost to the successful bidder on or about October 6, 1994, at such bank or trust company in the contiguous United States of America as may be specified by the successful bidder.

**Approval of Bonds**

The bonds will be sold subject to the legal opinion of Gilmore & Bell, P.C., Kansas City, Missouri, bond counsel, whose approving legal opinion as to the validity of the bonds will be furnished and paid for by the city, printed on the bonds and delivered to the successful bidder as and when the bonds are delivered.

**Assessed Valuation and Indebtedness**

The total assessed valuation of the taxable tangible property within the city for the year 1993 is \$202,499,968. The total general obligation indebtedness of the city as of the date of the bonds is \$12,510,000. The outstanding utility revenue debt of the city as of the date of the bonds, including the bonds, is as follows:

Issue	Amount
Combined Water and Sewage System Improvement Revenue Bonds, Series 1994-B	\$ 1,230,000
Combined Water and Sewage System Revenue Refunding Bonds, Series 1994	11,390,000
Combined Water and Sewage System Improvement Revenue Bonds, Series 1993-A	3,110,000
Combined Water and Sewage System Improvement Revenue Bonds, Series 1992	14,200,000*
Combined Water and Sewage System Refunding and Improvement Revenue Bonds, Series 1990A and B	6,795,000
Combined Water and Sewage System Revenue Bonds, Series 1977	1,730,000**

\* An irrevocable escrow account has been established which will provide for the payment of the principal of all Series 1992 Bonds maturing on and after October 1, 2001. A total of \$11,045,000 principal amount of the Series 1992 Bonds has been escrowed. The escrow will not provide for payment of any interest on the Series 1992 Bonds. The Series 1992 Bonds are not considered defeased.

\*\* Escrowed but not defeased.

**Additional Information**

Additional information regarding the bonds may be obtained from the city clerk, (913) 826-7240, or from the financial advisor, George K. Baum & Company, Twelve Wyandotte Plaza, 120 W. 12th, Kansas City, MO 64105, Attention: Roger Edgar, (816) 474-1100.

Dated August 22, 1994.

City of Salina, Kansas  
By Judy D. Long, City Clerk

Doc. No. 015306

(Published in the Kansas Register, September 1, 1994.)

(Published in the Kansas Register, September 1, 1994.)

**Notice of Redemption  
to the holders of  
Finney County, Kansas**

**Single Family Mortgage Revenue Bonds  
1980 Series A**

**Serial Maturities Due October 1, 1995 through  
October 1, 1999 and October 1, 2001  
and Term Bonds Due October 1, 2009**

Notice is hereby given that pursuant to Section 3.01 of the Trust Indenture dated as of January 1, 1980, \$330,000 principal amount of bonds has been drawn pro rata between maturities and by lot within each maturity, for redemption at par on October 1, 1994.

Coupon bonds for \$5,000 denominations, called in full, bearing CUSIP No. 318037 and Suffix:

AP3	1056	1407	1807	2884
819	1072	1546	1819	2893
865	AS7	1550	1838	2940
AQ1	1125	1583	2023	2955
945	1228	1661	2039	3114
964	AT5	1662	2151	3278
984	1262	AV0	2176	3310
AR9	AU2	1713	2426	3377
1001	1397	1739	2429	3382

The serial numbers of the registered bonds to be redeemed bearing CUSIP No. 318037, in whole or in part, and the principal amount to redeemed are as follows:

Bond Number	Par Amount	Amount Called	Suffix
R371	10,000	5,000	AS7
R411	25,000	10,000	AT5
R175	5,000	5,000	AT5
R392	5,000	5,000	AV0
R292	100,000	100,000	AV0
R319	5,000	5,000	AV0
R405	10,000	5,000	AV0
R462	40,000	5,000	AV0

Coupon bonds with the October 1, 1994, and all subsequent coupons attached, and registered bonds called in full or in part, should be presented to: Continental Bank, Attn: Corporate Trust Operations, 231 S. LaSalle St., 19th Floor, Chicago, IL 60697. To assure prompt payment of the redemption price, bond certificates should be sent, unendorsed, approximately two weeks before October 1, 1994, to the above address. Sending certificates by registered mail is suggested.

Where a fully registered bond is redeemed in part, a new fully registered bond for the unredeemed portion will be issued and returned without charge. Interest on the bonds or portion of bonds called for redemption will cease to accrue on October 1, 1994.

To avoid a 31 percent federal withholding tax, holders must submit a properly completed IRS Form W-9 with their bonds.

Dated August 22, 1994.

Finney County, Kansas  
By Continental Bank  
as Trustee

Doc. No. 015295

**Notice of Bond Sale  
\$152,000**

**General Obligation Bonds  
Series 1994  
of the  
City of Marysville  
Marshall County, Kansas**

The city of Marysville, Marshall County, Kansas, will receive sealed bids at City Hall, 209 N. 8th, Marysville, KS 66508, until 4:30 p.m. C.D.T. on September 12, 1994, for \$152,000 par value General Obligation Bonds, Series 1994, of the city, at which time and place such bids will be publicly opened. No oral or auction bids will be considered by the governing body.

**Terms of the Bonds**

The bonds will be dated October 1, 1994, and will mature serially on October 1 in the years and in the amounts set forth below. The bonds will bear interest from the date thereof at rates to be determined when the bonds are sold as provided herein. The bonds will consist of fully registered certificated bonds, each in the denomination of \$5,000 or integral multiples thereof not exceeding the principal amount of bonds maturing in the same year, except one bond which shall be in the denomination of \$7,000. Interest will be payable April 1, 1995, and thereafter semiannually on October 1 and April 1 of each year until their respective maturities.

The principal of the bonds will be payable at the office of the Kansas State Treasurer (the paying agent and bond registrar) to the registered owners thereof upon presentation of the bonds for payment and cancellation. Interest on the bonds will be payable by check or draft of the paying agent to the registered owners appearing on the books maintained by the bond registrar as of the 15th day of the month preceding each interest payment date (the record dates). The fees of the bond registrar for registration and transfer of the bonds will be paid by the city.

The bonds will mature serially as follows:

Principal Amount	Maturity Date
\$22,000	October 1, 1995
\$20,000	October 1, 1996
\$20,000	October 1, 1997
\$20,000	October 1, 1998
\$20,000	October 1, 1999
\$20,000	October 1, 2000
\$15,000	October 1, 2001
\$15,000	October 1, 2002

**Redemption of Bonds**

Bonds maturing in the years 1995 through 1999, inclusive, shall become due and payable on their respective maturity dates without option of prior call for redemption and payment. Bonds maturing in the year 2000, and thereafter, at the city's option may be called for redemption and payment prior to their respective maturities on and after October 1, 1999. Bonds called for redemption and payment may be called in whole or in part at any time on any interest payment date from and

(continued)

after the first date authorized for redemption. Bonds called for redemption and payment as described herein shall be redeemed at a price equal to the principal amount thereof, plus accrued interest to the date established for such redemption and payment.

If less than all of the bonds outstanding are called for redemption on a specified date, the method of selection of the bonds to be so called shall be designated by the city in such equitable manner as it may determine. If the city elects to call for redemption less than all of the bonds at the time outstanding, it shall, in the case of bonds registered in denominations greater than \$5,000, treat each \$5,000 of face value of a bond so registered as though it were a separate bond in the denomination of \$5,000.

Written notice of any call for redemption and payment of the bonds shall be given by United States registered or certified mail not less than 30 days prior to the date established for such redemption and payment. Such written notice shall be mailed to the paying agent and to the registered owners of the bonds as shown by the registration books maintained by the bond registrar. Prior to any date established for redemption and payment, the city shall deposit with the paying agent sufficient funds to pay the bonds so called for redemption and payment at the redemption price set forth above and all unpaid and accrued interest thereon to the date of such redemption and payment. Upon the deposit of said funds, and the giving of notice of such redemption and payment as aforesaid, bonds thus called for redemption shall cease to bear interest from and after the date of their redemption and payment.

#### Condition of Bids

Bids will be received for the bonds bearing such rate or rates of interest as may be specified by the bidder. The same rate will apply to all bonds of the same maturity. Each interest rate specified will be in an even multiple of 1/8 or 1/20 of 1 percent. The difference between the highest and lowest rates specified in any bid will not exceed 2 percent. No interest rate shall exceed a rate equal to the index of treasury bonds published by *The Bond Buyer*, in New York, New York, on the Monday next preceding the day on which the bonds are sold, plus 2 percent. No bid of less than par and accrued interest will be considered. Bids for less than the entire issue of bonds will not be considered.

#### Bid Form and Good Faith Deposit

Bids will be submitted on the official bid form furnished by and secured from the city clerk and will be addressed to the city at City Hall, 209 N. 8th, Marysville, KS 66508, Attention: City Clerk, and will be plainly marked "Bond Bid." No changes to said form are authorized; changes or erasures thereon may cause rejection of any bid. Each bid will specify the total interest cost to the city on the basis of such bid and the average annual net interest rate on the basis of such bid. The net interest cost to the city will be determined by subtracting the amount of the premium, if any, from the total interest cost upon all the bonds from their date until their respective maturities and will be stated as a dollar amount in the bid. The city will be entitled to rely on such dollar amount as stated in the bid as the basis of

determining the lowest net interest cost. If there is any discrepancy between the said net interest cost and the average annual interest rate specified, the specified net interest cost will govern and the rates specified in the bid will be adjusted accordingly.

All bids must state (1) the total interest cost of the bid; (2) the premium, if any; (3) the net interest cost of the bid; and (4) the average annual interest rate. All of said information shall be certified by the bidder to be correct, and the city will be entitled to rely on the certification of correctness by the bidder. Each bid must be accompanied by a certified or cashier's check equal to 2 percent of the total amount of the bid, and shall be payable to "Treasurer, Marysville, Kansas." In the event a bidder whose bid is accepted shall fail to perform under the contract for the purchase of the bonds from the city, said deposit shall be retained by the city as liquidated damages. All checks of unsuccessful bids will be returned promptly. No interest will be paid upon the deposit made by the successful bidder.

#### Award of Bids

The sealed bids for the bonds will be opened publicly and only at the time and place specified in this notice. The city reserves the right to reject any and all of the bids, and to waive any irregularities. Unless all bids are rejected, the bonds will be awarded to the bidder whose proposal results in the lowest net interest cost to the city.

#### Delivery of the Bonds

The bonds, duly printed, executed and registered, will be furnished and paid for by the city. The bonds will be sold subject to the unqualified approving opinion of Jonathan P. Small, Chartered, bond counsel, of Topeka, Kansas, a copy of whose opinion will be printed on the reverse side of each bond. Manually signed originals of the opinion will be furnished without expense to the purchaser of the bonds at the delivery thereof. The cost of this legal opinion and the expense of printing the bonds will be paid by the city. Said legal opinion will contain a statement to the effect that the bonds constitute a general obligation of the city payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all of the taxable tangible property within the territorial limits of the city. The opinion will also address the exclusion from federal and Kansas income taxation of the interest on the bonds.

The denomination of the bonds and the names, addresses and social security or taxpayer identification numbers of the registered owners to be shown on the bonds initially delivered shall be submitted in writing by the successful bidder to the city and bond registrar not later than 5 p.m. C.D.T. on September 30, 1994. In the absence of such information, the city will deliver the bonds in the denomination of each maturity registered in the name of the successful bidder.

The purchaser will be furnished with a complete transcript of proceedings evidencing the authorization and issuance of the bonds and the usual closing proofs, which will include a certificate that there is no litigation pending or threatened at the time of delivery of the bonds affecting their validity. Payment for the bonds will be made in immediately available funds. Delivery

of the bonds will be made to the successful bidder on or before October 14, 1994, at any bank in the state of Kansas or Kansas City, Missouri, at the expense of the city. Delivery elsewhere will be made at the expense of the purchaser. The purchase price, together with any premium and accrued interest from the date of the bonds to the date of delivery, will be paid at delivery or the good faith deposit will be forfeited.

#### **Tax Exemption and Qualified Tax-Exempt Obligations**

It is the opinion of bond counsel that provided the city complies at all times with the bond ordinance and applicable existing law, the interest on the bonds is (1) excludable from gross income for federal income tax purposes, and (2) is not an item of tax preference for purposes of the federal alternative minimum tax imposed on individuals and corporations. However, such interest with respect to corporations as defined for federal income tax purposes is taken into account in determining adjusted current earnings for the purpose of computing the alternative minimum tax imposed on such corporations. The exclusion identified in the preceding clause (1) is subject to compliance by the city with all requirements of the Internal Revenue Code of 1986, as amended, which must be satisfied subsequent to issuance of the bonds in order for the interest on the bonds to qualify for such exclusion. Failure to comply with certain of such requirements could cause the interest on the bonds to be so included in federal gross income retroactive to the date of issuance of the bonds. The city will covenant to comply with all such requirements. Bond counsel expresses no opinion regarding other federal tax consequences arising with respect to the bonds.

Prospective bidders for the purchase of the bonds should be aware that (1) Section 265 of the code denies a deduction for interest on indebtedness incurred or continued to purchase or carry the bonds, except in the case of certain financial institutions within the meaning of Section 265(b)(5) of the code; (2) with respect to insurance companies subject to the tax imposed by Section 831 of the code, Section 832(b)(5)(B)(i) of the code reduces the deduction for loss reserves by 15 percent of the sum of certain items, including interest on the bonds; (3) for taxable years beginning prior to January 1, 1996, interest earned on the bonds by some corporations could be subject to the environmental tax imposed by Section 59A of the code; (4) interest earned on the bonds by certain foreign corporations doing business in the United States could be subject to a branch profits tax imposed by Section 884 of the code; (5) passive investment income, including interest on the bonds, may be subject to federal income taxation under Section 1375 of the code for Subchapter S corporations that have Subchapter C earnings and profits at the close of the taxable year if more than 25 percent of the gross receipts of such Subchapter S corporation is passive investment income; and (6) Section 86 of the code requires recipients of certain Social Security and Railroad Retirement benefits to take into account in determining gross income, receipts or accruals of interest on the bonds. Bond counsel expresses no opinion regarding these tax consequences. These categories of prospective bondowners should consult their

own tax advisers as to the applicability of any of these consequences.

The bonds are exempt from intangible personal property taxes levied by Kansas counties, cities and townships. Interest on the bonds is excludable from the computation of Kansas adjusted gross income whether or not included in federal adjusted gross income.

The city will covenant to take such actions as are necessary to designate the bonds as "qualified tax-exempt obligations" within the meaning of Section 265(b)(3) of the code, and, in the case of certain financial institutions within the meaning of Section 265(b)(5) of the code, a deduction is allowed for 80 percent of that portion of such financial institutions's interest expense allocable to interest on the bonds.

#### **Offering Price Certificate**

To provide the issuer with information necessary for compliance with Section 148 of the Internal Revenue Code of 1986, as amended, the successful bidder will be required to complete, execute and deliver to the issuer prior to the delivery of the bonds a certificate regarding the "issue price" of the bonds (as defined in Section 148 of the code), reflecting the initial offering prices (excluding accrued interest and expressed as dollar prices) at which a substantial amount (i.e., 10 percent or more) of the bonds of each maturity have been or are expected to be sold to the public. The term "public" excludes bond houses, brokers or similar persons or organizations acting in the capacity of underwriters or wholesalers. Such certificate shall state that 10 percent or more of the bonds of each maturity have been or are expected to be sold to the public at prices no higher than such initial offering prices. However, such certificate may indicate that the successful bidder will not reoffer the bonds for sale.

#### **Purpose and Security for the Bonds**

These bonds are being issued pursuant to K.S.A. 12-685 et seq. and K.S.A. 10-101 et seq., as amended and supplemented, for the purpose of financing the cost of certain main trafficway public street improvements and all things necessary and incidental thereto.

The bonds and the interest thereon shall constitute general obligations of the city and shall be payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property within the territorial limits of the city.

#### **Assessed Valuation and Bonded Indebtedness**

The city's equalized assessed valuation including motor vehicles of the taxable tangible property within the city for the year 1994 for the computation of limits upon bonded indebtedness is \$13,905,033. The total general obligation bonded indebtedness of the city as of this date is \$2,100,000, which includes \$270,000 in temporary notes which the city anticipates retiring in full with the proceeds from the bonds and other funds available to the city. Said indebtedness does not include this \$152,000 proposed issue of bonds.

#### **Official Information**

Additional copies of this notice of bond sale, the official bid form and further information may be received

(continued)



from the city clerk, Paula Holle, at the address provided below, or from bond counsel, Jonathan P. Small, Mercantile Bank Building, Suite 808, 800 S.W. Jackson, Topeka, KS 66612, (913) 234-3686.

Dated August 31, 1994.

Paul Holle, CMC/AAE  
City Clerk  
209 N. 8th  
Marysville, KS 66508  
(913) 562-5331

Doc. No. 015308

## State of Kansas

### Department of Health and Environment

#### Notice of Proposed Permit Action

The Kansas Department of Health and Environment and the U.S. Environmental Protection Agency, Region VII have received a Resource Conservation and Recovery Act (RCRA) hazardous waste Part B permit application from Hydrocarbon Recyclers, Incorporated of Wichita, the operator, and Hydrocarbon Recyclers, Incorporated, the owner, of a facility located at 2549 N. New York, Wichita. KDHE and EPA are providing notice of their intent to issue a joint hazardous waste storage and treatment permit to the operator and owner of the facility.

The facility obtained interim status to store and treat hazardous waste in November 1980 and was assigned EPA identification number KSD007246846. The facility was formerly known as Reid Supply, Incorporated and Conservation Services, Incorporated prior to the acquisition by Hydrocarbon Recyclers, Incorporated. The previous owner of the facility is a potentially responsible party (PRP) at the 29th and Meade Superfund site and is involved in site investigation under a consent agreement with the department.

In October 1985, the state of Kansas received final authorization from EPA to implement its own hazardous waste management program in lieu of the federal program, except for the portions covered by the Hazardous and Solid Waste Amendments of 1984 (HSWA). The KDHE portion of the permit (Part I) will be issued under the authority of K.S.A. 65-3431(i) and 65-3431(s), and the EPA portion of the permit (Part II) will be issued under the authority of sections 3002(b), 3004(u) and (v), and 3005 of the Resource Conservation and Recovery Act.

Part I of the permit will allow the operator and/or owner to store and/or treat hazardous waste in Subpart X—Miscellaneous units, containers and tanks from on-site and off-site sources. The facility will store and/or treat 325,490 gallons of hazardous waste in 27 container management units and 137,987 gallons of hazardous waste in 22 tanks located in seven existing buildings. The Subpart X units consist of a shredder, granulator, drum scraper, dryer, drum washer, and dispersing unit. The materials managed at the facility will include ignitable, corrosive, reactive, toxic, and listed liquid or solid hazardous waste destined for on-site management, recycling as waste fuel, wastewater management, solvent recovery

or transport off-site for additional management. The storage and/or treatment container management units and tanks have secondary containment and comply with 40 CFR Part 264 Subparts I and J. The EPA portion (Part II) of the joint permit will address the requirements of HSWA.

A copy of the administrative record, which includes the draft permit, Part B permit application and all information pertaining to this permit action, is available for public review through October 17 during normal business hours, 8 a.m. to 4:30 p.m., Monday through Friday at the following locations:

Kansas Department of Health and Environment  
Southcentral District Office  
130 S. Market, 6th Floor  
Wichita 67202  
Contact: Mark Bradbury  
(316) 337-6020

Kansas Department of Health and Environment  
Hazardous Waste Section  
Building 740, Forbes Field  
Topeka 66620  
Contact: John W. Mitchell  
(913) 296-1608

U.S. Environmental Protection Agency  
Region VII—RCRA Branch  
726 Minnesota Ave.  
Kansas City, KS 66101  
Contact: Robert Stewart  
(913) 551-7654

Anyone wishing to comment on the draft permit should submit written comments postmarked no later than October 17 to John W. Mitchell (KDHE) or Robert Stewart (EPA) at the above addresses.

A public hearing will be held in conjunction with the public comment period. The hearing has been scheduled at 7 p.m. October 5 in the City Hall Chambers, 455 N. Main, Wichita. After consideration of all comments received, the secretary and regional administrator will make a final permit decision. Notice will be given to the applicant, all persons who submitted written comments, those who commented at the public hearing, and those who requested notice of the final permit decision. If none of the comments received during the public comment period results in revision to the draft permit, the permit will become effective immediately upon its issuance. If comments received during the public comment period result in revision, the permit will become effective 30 days after service of notice of the final decision or at a later date, if a review is requested under 40 CFR 124.19.

Robert C. Harder  
Secretary of Health  
and Environment

Doc. No. 015297

State of Kansas

Department of Health and Environment

Notice Concerning Kansas Water Pollution Control Permits

In accordance with state regulations 28-16-57 through 63, 28-18-1 through 4, and the authority vested with the state by the administrator of the U.S. Environmental Protection Agency, tentative permits have been prepared for discharges to the waters of the United States and the state of Kansas for the applicants described below. The tentative determinations for permit content are based on preliminary staff review, applying the appropriate standards, regulations, and effluent limitations of the state of Kansas and the EPA, and when issued will result in a state water pollution control permit and national pollutant discharge elimination system authorization to discharge subject to certain effluent limitations and special conditions.

Public Notice No. KS-AG-94-81

Name and Address of Applicant	Legal Description	Receiving Water
Roger Murphy Trust Route 5, Box 150 Great Bend, KS 67530	NW/4, Sec. 2, T19S, R14W, Barton County	Upper Arkansas River Basin
Kansas Permit No. A-UABT-C005		Federal Permit No. KS-0088536

The feedlot has capacity for approximately 1,350 cattle and a contributing drainage area of approximately 10.4 acres. This is an existing facility

Runoff Control Facilities: Feedlot runoff is impounded for subsequent application to agricultural land for beneficial use. Wastewater storage capacity is provided in excess of 6.3 acre-feet.

Compliance Schedule: A livestock waste management plan for the facility shall be developed. The plan shall cover, but not be limited to, the following items: handling and disposal equipment for both solid and liquid wastes, land application practices used to protect against runoff and leaching, waste application rates based on crop nutrient utilization, and identification of adequate land areas of application of all wastes. Detailed guidance and requirements will be provided by the department. A plan shall be submitted to the department within six months following receipt of detailed requirements. The approved plan will become part of this permit.

Public Notice No. KS-SW-94-1

Name and Address of Applicant	Waterway	Type of Discharge
City of Wichita Department of Public Works Engineering Division Seventh Floor, City Hall 455 N. Main Wichita, KS 67202 Sedgwick County, Kansas	Lower Arkansas River Basin	Municipal stormwater
Kansas Permit No. M-AR94-S001		Fed. Permit No. KS-0091049

Description of Facility: The city of Wichita has an existing storm sewer system which discharges at multiple points to the Arkansas River or any of several tributaries of the Arkansas. The proposed is to be issued pursuant to K.S.A. 65-165 and federal regulation 40 CFR Part 122.26(d) and (e). This permit does not include any effluent limitations or schedule of compliance, but does require the permittee implement the stormwater management program as submitted with the NPDES permit application, and as modified to include the requirements stipulated in Part II of the NPDES permit.

Public Notice No. KS-94-52/56

Name and Address of Applicant	Waterway	Type of Discharge
The Quaker Oats Company 727 N. Iowa Lawrence, KS 66044	Unnamed tributary to Kansas River	Non-contact cooling water from closed loop chillers, in the event the chillers are repaired or serviced

Douglas County, Kansas  
Kansas Permit No. I-KS31-C003      Fed. Permit No. KS-0079081

Description of Facility: This facility manufactures dry dog food. Non-contact cooling water is normally recirculated through closed loop chillers. However, in the event the chillers are repaired or serviced, a discharge occurs. All other wastewater is discharged to the city sanitary sewer. This is an existing facility. Proposed effluent limitations are pursuant to Kansas surface water quality standards, K.A.R. 28-16-28(b-f), and federal surface water criteria.

Name and Address of Applicant	Waterway	Type of Discharge
KPL, a Western Resource Co. Gordon Evans Steam Electric Station Colwich, Kansas 201 N. Market, P.O. Box 208 Wichita, KS 67201	Unnamed tributary to Cowskin Creek to Arkansas River	Cooling tower and boiler blowdown, fire side wash water, floor drains and storm runoff

Sedgwick County, Kansas  
Kansas Permit No. I-AR24-P001      Fed. Permit No. KS-0000604

Description of Facility: This facility generates electricity with high presser steam produced by fossil fuel combustion. Discharges include cooling tower and boiler blowdown, boiler fire side wash water, floor drains, water softener wastewater, and oil storage area runoff. Abatement include treatment with lime, caustic, sulfuric acid, CO2 and oxidizing agents in treatment ponds prior to discharge to an unnamed tributary of Cowskin Creek. This is an existing facility. Proposed effluent limitations are pursuant to Kansas surface water quality standards, K.A.R. 28-26-28(b-f), and federal surface water criteria.

Name and Address of Applicant	Waterway	Type of Discharge
KPL, a Western Resource Co. Neosho Steam Electric Station Parsons, Kansas 201 N. Market, P.O. Box 208 Wichita, KS 67201	Neosho River	Once-through non-contact cooling water and stormwater runoff

Labette County, Kansas  
Kansas Permit No. INE55-P003      Fed. Permit No. KS-0000612

Description of Facility: Steam electric power station which has not operated since September 30, 1985. A heating boiler is operated infrequently during winter. Boiler and turbine are in dry storage, and softener, filter and cooling tower blowdowns are disconnected. The only discharge is once-through non-contact cooling water and stormwater runoff which is routed through settling ponds to Neosho River. This is an existing facility. Proposed effluent limitations are pursuant to Kansas surface water quality standards, K.A.R. 28-16-28(b-f), and federal surface water criteria.

Name and Address of Applicant	Waterway	Type of Discharge
KPL, a Western Resource Co. Ripley Steam Electric Station Wichita, Kansas 201 N. Market, P.O. Box 208 Wichita, KS 67201	Arkansas River via Little Arkansas River	Once-through non-contact cooling water and stormwater runoff

Sedgwick County, Kansas  
Kansas Permit No. I-AR94-P014      Fed. Permit No. KS-0000639

(continued)

**Description of Facility:** This is a steam electric power station permanently retired from operation. The main steam turbine has been taken out of service, and a heating boiler is operated infrequently during winter. The only discharge is once-through non-contact cooling water and stormwater runoff, through concrete sedimentation ponds. Domestic waste is directed to a septic tank/lateral field. This is an existing facility. Proposed effluent limitations are pursuant to Kansas surface water quality standards, K.A.R. 28-16-28(b-f), and federal surface water criteria.

Name and Address of Applicant	Waterway	Type of Discharge
KPL, a Western Resource Co.	Little Arkansas River to Arkansas River	Stormwater runoff and boiler blowdown when operating
Wichita Steam Electric Station Wichita, Kansas 201 N. Market, P.O. Box 208 Wichita, KS 67201 Sedgwick County, Kansas Kansas Permit No. I-AR94-B004		Fed. Permit No. KS-0000591

**Description of Facility:** This steam electric generating facility has been permanently retired from operation. The main steam turbine has been taken out of service and a heating boiler is operated infrequently during winter. Non-contact cooling water, floor drains and stormwater runoff is discharged to the river. This is an existing facility. Proposed effluent limitations are pursuant to Kansas surface water quality standards, K.A.R. 28-16-18(b-f), and federal surface water criteria.

Written comments on the proposed determinations may be submitted to Bethel Spotts, Permit Clerk, or Dorothy Geisler (agricultural permits), Kansas Department of Health and Environment, Division of Environment, Bureau of Water, Forbes Field, Topeka 66620. All comments postmarked or received on or before September 30 will be considered in the formulation of final determinations regarding this public notice. Please refer to the appropriate public notice number (KS-AG-94-81, KS-SW-94-1, and KS-94-52/56) and the name of applicant as listed when preparing comments.

If no objections are received during the public notice period, the Secretary of Health and Environment will issue the final determinations. If response to this notice indicates significant public interest, a public hearing may be held in conformance with state regulation 28-16-61. Media coordination (newspapers, radio) for publication and/or announcement of the public notice or public hearing is handled by the Kansas Department of Health and Environment.

The application, proposed permit, including proposed effluent limitations and special conditions, fact sheets as appropriate, comments received, and other information are on file and may be inspected at the Kansas Department of Health and Environment offices, Building 283, Forbes Field, Topeka, from 8 a.m. to 4:30 p.m. Monday through Friday. The documents are available upon request at the copying cost assessed by KDHE. Additional copies of this public notice also may be obtained at the Division of Environment.

Robert C. Harder  
Secretary of Health  
and Environment

Doc. No. 015313

## State of Kansas

### Department of Wildlife and Parks

#### Permanent Administrative Regulations

##### Article 4.—BIG GAME

**115-4-12. Big game; assistance to big game permit holders.** (a) Subject to the hunting license requirements of K.S.A. 32-919 and license requirements of regulations adopted thereunder, and to the provisions of subsections (b) and (c), any individual may assist the holder of a big game permit during the permittee's big game hunting activity. Such assistance may include herding or driving.

(b) An individual assisting the holder of a big game permit shall not perform the actual shooting of big game for the permit holder. However, a permit holder who is disabled and unable to pursue a wounded big game animal by reason of disability, may designate any individual to assist in pursuing and dispatching a big game animal wounded by the disabled permit holder.

(1) The designated individual shall carry the disabled permittee's big game permit and shall attach the game tag to the carcass of the big game animal immediately after the kill and before leaving the site of the kill.

(2) The designated individual shall use only the type of equipment authorized for use by the disabled permit holder.

(c) Horses or mules shall not be used for the herding or driving of elk. (Authorized by K.S.A. 32-807 and K.S.A. 32-937 as amended by L. 1994, Chapter 245, sec. 1; implementing K.S.A. 32-807, K.S.A. 32-937 as amended by L. 1994, Chapter 245, sec. 1 and K.S.A. 32-1002; effective May 27, 1991; amended Oct. 17, 1994.)

##### Article 5.—FURBEARERS

**115-5-2. Furbearers and coyotes; possession, disposal and general provisions.** (a) Raw furs, pelts or skins of furbearers may be possessed for the shorter of the following time periods:

(1) not more than 30 days following the closing of the season in which that species of furbearer may legally be taken; or

(2) until the day prior to the beginning of the running season in which that species of furbearer may legally be run.

(b) Requests to possess raw furs, pelts or skins beyond the possession period as specified in subsection (a) shall be submitted to the department and, if granted, shall be authorized in writing by the secretary. Each request shall specify the number of each species of furbearers possessed and the applicant's name, address and furharvester license number.

(c) Live furbearers legally taken during a furbearer season may be possessed only through the last day of the season in which taken.

(d) Unskinned carcasses of furbearers may be possessed for not more than 48 hours following the closing of the season in which that species of furbearer may legally be taken. Skinned carcasses and meat of furbearers may be possessed without limit in time. Legally acquired skinned carcasses and meat of furbearers may be sold or given to and possessed by another, provided a written



notice which includes the seller's or donor's name, address and furharvester license number accompanies the carcass or meat.

(e) Legally taken raw furs, pelts, skins, or carcasses of coyotes or legally taken live coyotes may be possessed without limit in time except as provided in K.A.R. 28-1-14.

(f) Any person in lawful possession of raw furbearing animal or coyote furs, pelts, skins or carcasses may sell or ship or offer for sale or shipment the same to licensed fur dealers or any person legally authorized to purchase raw furbearing animal or coyote furs, pelts, skins or carcasses.

(g) Any bobcat or swift fox pelt legally taken in Kansas may be sold to any fur dealer, or shipped from the state for the purpose of selling if an export tag provided by the department has been affixed to the pelt.

(1) The pelt of any bobcat or swift fox taken in Kansas shall be presented to the department for tagging within 48 hours following closure of the bobcat or swift fox hunting and trapping season.

(2) A pelt presented for tagging shall be accompanied by the furharvester license number under which the pelt was taken.

(h) Bobcat or swift fox pelts tagged by the department may be possessed without limit in time.

(i) Properly licensed persons may legally salvage furbearing animals and coyotes found dead during the established open seasons for hunting or trapping of furbearers or coyotes. Salvaged furbearing animals and coyotes may be possessed or disposed of as authorized by this regulation.

(j) The raw fur, pelt, skin, carcass or meat of any furbearing animal, except spotted skunk or river otter, taken as a result of animal damage control activities outside of an established season for that species of furbearer, may be possessed and disposed of as authorized by this regulation, if:

(1) furharvester license requirements of K.S.A. 32-911 and amendements thereto are met; and

(2) a permit authorizing the possession and disposal has been issued by the department. (Authorized by K.S.A. 32-807; implementing K.S.A. 32-807 and K.S.A. 32-1002; effective March 19, 1990; amended Oct. 17, 1994.)

**115-5-3. Furbearers and coyotes; management units.** (a) The eastern management unit shall be that part of Kansas east of and including Smith, Osborne, Russell, Ellsworth, Rice, Reno, Pratt and Barber counties.

(b) The western management unit shall be that part of Kansas west of the eastern unit. (Authorized by and implementing K.S.A. 32-807; effective Oct. 17, 1994.)

#### Article 9.—LICENSES, PERMITS, STAMPS, AND OTHER DEPARTMENT ISSUES

**115-9-7. Hunting licenses; general activities for which a hunting license shall not be required.** A hunting license shall not be required for those activities which are not a part of the actual shooting, capturing or harvesting of wildlife. Such activities shall include, but not be limited to:

(a) carrying or assist with carrying wildlife for another while in the company of that individual;

(b) possession of wildlife for the purpose of dressing, cleaning, processing for human consumption or preparing for human consumption;

(c) assisting with the dressing, cleaning, processing for human consumption or preparing for human consumption;

(d) performance of taxidermy work;

(e) possession of finished taxidermy work;

(f) possession of finished wildlife products;

(g) accompanying one or more hunters in the field who are engaged in hunting, except the accompanying individual shall not be in possession of hunting equipment for the shooting, capturing or harvesting of wildlife;

(h) possession of donated wildlife that was acquired, possessed and given by another;

(i) possession of wildlife that was legally acquired by the individual;

(j) wildlife observations;

(k) nature observations and studies;

(l) feeding of wildlife;

(m) watering of wildlife;

(n) accidental killing or injuring of wildlife such as vehicle collision with wildlife; or

(o) assisting with the tracking of wounded wildlife. (Authorized by K.S.A. 32-807 and K.S.A. 32-919; implementing K.S.A. 32-807, K.S.A. 32-919 and K.S.A. 32-1002; effective Oct. 17, 1994.)

Ted Ensley  
Secretary of Wildlife  
and Parks

Doc. No. 015286

#### State of Kansas

#### Department of Health and Environment

#### Permanent Administrative Regulations

#### Article 35.—RADIATION

**28-35-135. Definitions.** As used in these regulations: (a) "A<sub>1</sub>" means the maximum activity of special form radioactive material permitted in a type A package.

(b) "A<sub>2</sub>" means the maximum activity of radioactive material, other than special form radioactive material, permitted in a type A package. These values are either listed in K.A.R. 28-35-221b appendix A, table I, or may be derived in accordance with the procedure prescribed in 28-35-221b appendix A of these regulations.

(c) "Accelerator-produced material" means any material made radioactive by exposing it in a particle accelerator.

(d) "Act" means the "nuclear energy development and radiation control act," K.S.A. 48-1601 *et seq.*, as amended.

(e) "Activity" means the rate of disintegration, transformation or decay of radioactive material. The units of activity are the becquerel (Bq) and the curie (Ci).

(continued)

(f) "Adult" means an individual who is 18 or more years of age.

(g) "Agreement state" means any state with which the United States nuclear regulatory commission enters, or has entered, into an effective agreement under Section 274b of the atomic energy act of 1954, as amended by 73 Stat. 689, as in effect on November 1, 1982.

(h) "Airborne radioactive material" means any radioactive material dispersed in the air in the form of dusts, fumes, mists, vapors, or gases.

(i) "Annual limit on intake (ALI)" means the derived limit for the amount of radioactive material taken into the body of an adult worker by inhalation or ingestion in a year. ALI is the smaller value of intake of a given radionuclide in a year by the reference man that would result in a committed effective dose equivalent of 0.05 Sv (5 rem) or a committed dose equivalent of 0.5 Sv (50 rem) to any individual organ or tissue. ALI values for intake by ingestion and by inhalation of selected radionuclides are given in K.A.R. 28-35-233b table I, columns 1 and 2, of appendix B.

(j) Areas.

(1) "Airborne radioactive area" means:

(A) any room, enclosure, or operating area in which airborne radioactive material exists in concentrations in excess of the derived air concentrations (DAC) specified in K.A.R. 28-35-233b, appendix B, table I, and any amendment of that rule and regulation; or

(B) any room, enclosure, or operating area in which airborne radioactive material exists in concentrations such that an individual present in the area without respiratory protective equipment could exceed, during the hours an individual is present in a week, an intake of 0.6 percent of the annual limit on intake ALI or 12 DAC-hours.

(2) "Controlled area" means an area, outside of a restricted area but inside the site boundary, access to which can be limited by the licensee or registrant for any reason.

(3) "High radiation area" means any area which is accessible to individuals, in which there exists radiation at such levels that a major portion of the body could receive, in any one hour, at 30 centimeters from the source of the radiation or any surface that the radiation penetrates a dose to the whole body in excess of 100 millirems. For purposes of these regulations, rooms or areas in which diagnostic x-ray systems are used for healing arts purposes shall not be considered high radiation areas.

(4) "Radiation area" means any area which is accessible to individuals, in which there exists radiation at such levels that at 30 centimeters from the source of the radiation or any surface that the radiation penetrates an individual could receive a dose equivalent in excess of five millirems.

(5) "Restricted area" means any area, the access to which is limited by the licensee or registrant for the purpose of protecting individuals against undue risks from exposure to sources of radiation. The term "restricted area" shall not include areas used as residential quarters, but separate rooms in a residential building may be set apart as a restricted areas.

(6) "Site boundary" means that line beyond which the land or property is not owned, leased, or otherwise controlled by the licensee or registrant.

(7) "Unrestricted area" means an area, access to which is neither limited nor controlled by the licensee or registrant. For purposes of these regulations, "uncontrolled area" shall be considered an equivalent term.

(8) "Very high radiation area" means an area, accessible to individuals, in which radiation levels could result in an individual receiving an absorbed dose in excess of five Gy (500 rad) in one hour at one meter from a source of radiation or from any surface that the radiation penetrates.

(k) "As low as is reasonably achievable (ALARA)" means making every reasonable effort to maintain exposures to radiation as far below the dose limits in these regulations as is practical, consistent with the purpose for which the licensed or registered activity is undertaken, taking into account the state of technology, the economics of improvements in relation to state of technology, the economics of improvements in relation to benefits to the public health and safety, and other societal and socioeconomic considerations, and in relation to utilization of nuclear energy and licensed or registered sources of radiation in the public interest.

(l) (1) "Background radiation" means:

(A) radiation from cosmic sources;

(B) naturally occurring radioactive materials, including radon, except as a decay product of source or special nuclear material; and

(C) global fallout as it exists in the environment from the testing of nuclear explosive devices.

(2) The term "background radiation" shall not include sources of radiation from radioactive materials regulated by the department.

(m) "Becquerel (Bq)" means the SI unit of activity. One becquerel is equal to one disintegration or transformation per second (dps or tps).

(n) "Bioassay" means the determination of kinds, quantities or concentrations, and, in some cases, the locations of radioactive material in the human body, whether by direct measurement, in vivo counting, or by analysis and evaluation of materials excreted or removed from the human body. For purposes of these regulations, "radiobioassay" shall be considered an equivalent term.

(o) "Brachytherapy" means a method of radiation therapy in which sealed sources are utilized to deliver a radiation dose at a distance of up to a few centimeters, by surface, intracavitary, or interstitial application.

(o) "Calendar quarter" means not less than 12 nor more than 14 consecutive weeks. The first calendar quarter of each year shall begin in January and subsequent calendar quarters shall be arranged so that no day is included in more than one calendar quarter and no day in any one year is omitted from inclusion within a calendar quarter. A licensee or registrant shall not change the method of determining and observing calendar quarters for purposes of these regulations except at the beginning of a calendar year.

(q) "Calibration" means the determination of:

(1) the response or reading of an instrument relative to a series of known radiation values over the range of the instrument; or

(2) the strength of a source of radiation relative to a standard.

(r) "Chelating agent" means amine polycarboxylic acids, hydroxycarboxylic acids, gluconic acid, and polycarboxylic acids.

(s) "Class" means a classification scheme for inhaled material according to its rate of clearance from the pulmonary region of the lung. Materials are classified as D, W, or Y, which applies to a range of clearance half-times: for class D, days, of less than 10 days, for class W, weeks, from 10 to 100 days, and for class Y, years, of greater than 100 days. For purposes of these regulations, "lung class" and "inhalation class" shall be considered equivalent terms.

(t) "Curie" means a unit of quantity of radioactivity. One curie (Ci) is that quantity of radioactive material which decays at the rate of  $3.7 \times 10^{10}$  transformations per second (tps). Commonly used submultiples of the curie are the millicurie and the microcurie. One millicurie (mCi) = 0.001 curie =  $3.7 \times 10^7$  tps. One microcurie ( $\mu$ Ci) = 0.000001 curie =  $3.7 \times 10^4$  tps.

(u) "Declared pregnant woman" means a woman who has voluntarily informed her employer, in writing, of her pregnancy and the estimated date of delivery.

(v) "Department" means the department of health and environment.

(w) "Depleted uranium" means source material uranium in which the isotope uranium-235 is less than 0.711 weight percent of the total uranium present. Depleted uranium shall not include special nuclear material.

(x) "Derived air concentration (DAC)" means the concentration of a given radionuclide in air which, if breathed by the reference man for a working year of 2,000 hours under conditions of light work, results in an intake of one ALI. For purposes of these regulations, the condition of light work is an inhalation rate of 1.2 cubic meters of air per hour for 2,000 hours in a year. DAC values are given in K.A.R. 28-35-233b appendix B, table I.

(y) "Derived air concentration-hour (DAC-hour)" means the product of the concentration of radioactive material in air, expressed as a fraction or multiple of the derived air concentration of each radionuclide, and the time of exposure to that radionuclide, in hours. A licensee or registrant may take 2,000 DAC-hours to represent one ALI, equivalent to a committed effective dose equivalent of 0.05 Sv (5 rem).

(z) "Dose" is a generic term that means absorbed dose, dose equivalent, effective dose equivalent, committed dose equivalent, committed effective dose equivalent, total organ dose equivalent, or total effective dose equivalent. For purposes of these regulations, "radiation dose" shall be considered an equivalent term.

(1) "Absorbed dose" means the energy imparted to matter by ionizing radiation per unit mass of irradiated material at the place of interest. The units of absorbed dose are the rad and the gray (Gy).

(2) "Collective dose" means the sum of the individual doses received in a given period of time by a specified population from exposure to a specified source of radiation.

(3) "Committed dose equivalent ( $H_{T,50}$ )" means the dose equivalent to organs or tissues of reference (T) that

will be received from an intake of radioactive material by an individual during the 50-year period following the intake.

(4) "Committed effective dose equivalent ( $H_{E,50}$ )" is the sum of the products of the weighting factors applicable to each of the body organs or tissues that are irradiated and the committed dose equivalent to each of these organs or tissues ( $H_{E,50} = \sum w_T H_{T,50}$ ).

(5) "Deep dose equivalent ( $H_d$ )" which applies to external whole body exposure, means the dose equivalent at a tissue depth of one centimeter ( $1000 \text{ mg/cm}^2$ ).

(6) "Dose equivalent ( $H_T$ )" means the product of the absorbed dose in tissue, quality factor, and all other necessary modifying factors at the location of interest. The units of dose equivalent are the sievert (Sv) and rem.

(7) "Dose limits" means the permissible upper bounds of radiation doses established in accordance with these regulations. For purposes of these regulations, "limits" is an equivalent term.

(8) Effective dose equivalent ( $H_E$ )" means the sum of the products of the dose equivalent to each organ or tissue ( $H_T$ ) and the weighing factor ( $w_T$ ) applicable to each of the body organs or tissues that are irradiated ( $H_E = \sum w_T H_T$ ).

(9) "Exposure" means the quotient of  $dQ$  by  $dm$ . " $dQ$ " is the absolute value of the total charge of the ions of one sign produced in air when all the electrons (negatrons and positrons) liberated by photons in a volume element of air having mass " $dm$ " are completely stopped in air. [The special unit of exposure is the roentgen (R).] One roentgen equals  $2.58 \times 10^4$  coulombs/kilogram of air.

(10) "Exposure rate" means the exposure per unit of time, such as R/min or mR/hr.

(11) "External dose" means that portion of the dose equivalent received from any source of radiation outside the body.

(12) "Extremity dose" means external dose equivalent to the hand, elbow, arm below the elbow, foot, knee, and leg below the knee.

(13) "Eye dose equivalent" means the external dose equivalent to the lens of the eye, at a tissue depth of 0.3 centimeter, or  $300 \text{ mg/cm}^2$ .

(14) "Gray (Gy)" means the SI unit of absorbed dose. One gray is equal to an absorbed dose of one joule per kilogram (100 rad).

(15) "Internal dose" means that portion of the dose equivalent received from radioactive material taken into the body.

(16) "Occupational dose" means the dose received by an individual in a restricted area or in the course of employment in which the individual's assigned duties involve exposure to sources of radiation, whether in the possession of the licensee, registrant, or other person. The term "occupational dose" shall not include any dose received:

- (A) from background radiation;
- (B) as a patient from medical practices;
- (C) from voluntary participation in medical research programs; or
- (D) as a member of the public.

(continued)

(17) "Public dose" means the dose received by a member of the public from exposure to sources of radiation either within a licensee's or registrant's controlled area or in unrestricted areas. It shall not include occupational dose, dose received from background radiation, dose received as a patient from medical practices, or dose from voluntary participation in medical research programs.

(18) "Quality factor (Q)" means the modifying factor, listed in tables I and II in K.A.R. 28-35-144a that is used to derive dose equivalent from absorbed dose.

(19) "Rad" means the special unit of absorbed dose. One rad equals one hundredth of a joule per kilogram of material or the absorption of 100 ergs per gram of material. One millirad (mrad) equals 0.001 rad.

(20) "Rem" means the special unit of any of the quantities expressed as dose equivalent. One millirem (mrem) equals 0.001 rem.

(21) "Shallow dose equivalent ( $H_s$ )," which applies to the external exposure of the skin or an extremity, means the dose equivalent at a tissue depth of 0.007 centimeter, of 7 mg/cm<sup>2</sup> averaged over an area of one square centimeter.

(22) "SI" means the abbreviation for the international system of units.

(23) "Sievert" means the SI unit of any of the quantities expressed as dose equivalent. The dose equivalent in sievert is equal to the absorbed dose in gray multiplied by the quality factor (1 Sv = 100 rem).

(24) "Total effective dose equivalent (TEDE)" means the sum of the deep dose equivalent for external exposures and the committed effective dose equivalent for internal exposures.

(25) "Total organ dose equivalent (TODE)" means the sum of the deep dose equivalent and the committed dose equivalent to the organ receiving the highest dose as described in K.A.R. 28-35-212b of these regulations.

(aa) "Dosimetry processor" means an individual or an organization that processes and evaluates individual monitoring devices in order to determine the radiation dose delivered to the monitoring devices.

(bb) "Embryo/fetus" means the developing human organism from conception until the time of birth.

(cc) "Entrance or access point" means any opening through which an individual or extremity of an individual could gain access to radiation areas or to licensed or registered radioactive materials. This includes entry or exit portals of sufficient size to permit human entry, irrespective of their intended use.

(dd) "Explosive material" means any chemical compound, mixture, or device which produces a substantial instantaneous release of gas and heat spontaneously or by contact with sparks or flame.

(ee) "Generally applicable environmental radiation standards" means standards issued by the U.S. environmental protection agency (EPA) under the authority of the atomic energy act of 1954, and amendments thereto, that impose limits on radiation exposures or levels, or concentrations or quantities of radioactive material, in the general environment outside the boundaries of locations under the control of persons possessing or using radioactive material.

(ff) "Half-life" means the time required for any given radioisotope to decay to one-half of its original activity.

(gg) "Hazardous waste" means those wastes designated as hazardous by U.S. environmental protection agency regulations in 40 CFR part 261, effective July 1, 1991.

(hh) (1) "Healing arts" means the activities authorized by K.S.A. 65-2801 *et seq.*, and any amendments to those statutes.

(2) "Dentistry" means the activities authorized pursuant to K.S.A. 65-1421 *et seq.*, and any amendments to those statutes.

(3) "Podiatry" means the activities authorized pursuant to K.S.A. 65-2001 *et seq.*, and any amendments to those statutes.

(ii) "Human use" means the intentional internal or external administration of radiation or radioactive material to any individual.

(1) "Misadministration" means administration of:

(A) a radiopharmaceutical dosage greater than 30 microcuries of either I-125 or I-131 involving the wrong patient, or the wrong pharmaceutical, or when both the administered dosage differs from the prescribed dosage by more than 20 percent of the prescribed dosage and the difference between the administered dosage and prescribed dosage exceeds 30 microcuries;

(B) a therapeutic radiopharmaceutical dosage, other than I-125 or I-131 as sodium iodide, to the wrong patient, wrong route of administration or when the administered dosage differs from the prescribed dosage by more than 20 percent of the prescribed dosage;

(C) a gamma stereotactic radiosurgery radiation dose to the wrong patient, the wrong treatment site, or a calculated total administered dose which differs from the total prescribed dose by more than 10 percent of the total prescribed dose;

(D) a teletherapy radiation dose to the wrong patient, or wrong treatment site, or a teletherapy radiation treatment in which:

(i) the treatment consists of three or fewer fractions and the calculated total administered dose differs from the total prescribed dose by more than 10 percent of the total prescribed dose; or

(ii) the calculated weekly administered dose is 30 percent greater than the weekly prescribed dose; or

(iii) the calculated total administered dose differs from the total prescribed dose by more than 20 percent of the total prescribed dose;

(E) a brachytherapy radiation dose:

(i) to the wrong patient;

(ii) to the wrong treatment site;

(iii) using the wrong radioisotope;

(iv) using a sealed source that is leaking;

(v) when for a temporary implant, one or more sealed sources are not removed upon completion of the procedure; or

(vi) when the calculated administered dose differs from the prescribed dose by more than 20 percent of the prescribed dose; or

(F) a diagnostic radiopharmaceutical dosage, other than quantities greater than 30 microcuries of either sodium iodide I-125 or I-131, or both:

(i) involving the wrong patient, wrong radiopharmaceutical, wrong route of administration, or when the administered dosage differs from the prescribed dosage; and

(ii) when the dose to the patient exceeds 5 rems dose equivalent to any individual organ.

(jj) "Individual" means any human being.

(kk) "Individual monitoring" means the assessment of:

(1) a dose equivalent by the use of individual monitoring devices or by the use of survey data; or

(2) a committed effective dose equivalent by bioassay or by determination of the time-weighted air concentrations to which an individual has been exposed, that is, DAC-hours.

(ll) "Individual monitoring devices" means devices designed to be worn by a single individual for the assessment of dose equivalent. For purposes of these regulations, "personnel dosimeter" and "dosimeter" shall be considered equivalent terms. Examples of individual monitoring devices are film badges, thermoluminescent dosimeters (TLDs), pocket ionization chambers, and personal air sampling devices.

(mm) "Inspection" means an official examination or observation that may include tests, surveys, and monitoring to determine compliance with rules, regulations, orders, requirements and conditions of the department.

(nn) "Installation" means the location where one or more sources of radiation are used, operated, or stored.

(oo) "Interlock" means a device for precluding access by an individual to an area of radiation hazard without warning, either by preventing admission, or by automatically removing the hazards.

(pp) "License" means a license issued pursuant to these regulations, except where otherwise specified.

(qq) "Licensed or registered material" means radioactive material received, possessed, used, transferred or disposed of under a general or specific license or registration issued by the department.

(rr) "Licensee" means any person who is licensed in accordance with these regulations and the act.

(ss) "Licensing state" means any state with regulations equivalent to the suggested state regulations for control of radiation relating to, and an effective program for, the regulatory control of NARM and which has been granted final designation by the conference of radiation control program directors, inc.

(t) "Lost or missing licensed or registered source of radiation" means a licensed or registered source of radiation whose location is unknown. This definition shall include licensed or registered material that has been shipped but has not reached its planned destination and whose location cannot be readily traced in the transportation system.

(uu) "Major processor" means a user processing, handling, or manufacturing radioactive material exceeding type A quantities as unsealed sources or material, or exceeding four times type B quantities as sealed sources, but shall not include nuclear medicine programs, universities, industrial radiographers, or small industrial programs. Type A and B quantities are defined in K.A.R. 28-35-221b of these regulations.

(vv) "Member of the public" means an individual in a controlled or unrestricted area. However, an individual is not a member of the public during any period in which the individual receives an occupational dose.

(ww) "Minor" means an individual less than 18 years of age.

(xx) "Monitoring" means the measurement of radiation, radioactive material concentrations, surface area activities or quantities of radioactive material and the use of the results of these measurements to evaluate potential exposures and doses. For purposes of these regulations, "radiation monitoring" and "radiation protection monitoring" shall be considered equivalent terms.

(yy) "NARM" means any naturally occurring or accelerator-produced radioactive material. It shall not include byproduct, source, or special nuclear material.

(zz) "Non-stochastic effect" means a health effect, the severity of which varies with the dose and for which a threshold is believed to exist. Radiation-induced cataract formation is an example of a nonstochastic effect. For purposes of these regulations, "deterministic effect" shall be considered an equivalent term.

(aaa) "Nuclear regulatory commission (NRC)" means the U.S. nuclear regulatory commission or its duly authorized representatives.

(bbb) "Package" means the packaging together with its radioactive contents as presented for transport.

(ccc) "Particle accelerator" means any machine capable of accelerating electrons, protons, deuterons or other charged particles in a vacuum and of discharging the resultant particulate or other radiation into a medium at energies usually in excess of one MeV.

(ddd) "Person" means any individual, corporation, partnership, firm, association, trust, estate, public or private institution, group, agency, political subdivision of this or any other state, or political subdivision or agency thereof. The term shall also include any legal successor, representative, agent or agency of the foregoing, other than the United States nuclear regulatory commission, or any successor thereto, and other than federal government agencies licensed by the United States nuclear regulatory commission, or any successor thereto.

(eee) "Personnel monitoring equipment" means any device designed to be carried or worn by an individual and used to measure the exposure of that individual to radiation.

(fff) "Pharmacist" means any individual registered to practice pharmacy under K.S.A. 65-1626 *et seq.*, and any amendments to those statutes.

(ggg) "Physician" means any individual licensed to practice the healing arts pursuant to K.S.A. 65-2869 or 65-2870, or any amendments to these statutes.

(hhh) "Planned special exposure" means an infrequent exposure to radiation, separate from and in addition to the annual occupational dose limits.

(iii) "Protective barrier" means a barrier of attenuating materials used to reduce radiation exposure to the required degree.

(1) "Primary protective barrier" means a barrier of attenuating materials used to reduce the useful x-ray beam to the required degree.

(continued)



(2) "Secondary protective barrier" means a barrier sufficient to attenuate stray radiation to the required degree.

(jjj)(1) "Pyrophoric liquid" means any liquid that ignites spontaneously in dry or moist air at or below 130° F (54.4° C).

(2) A pyrophoric solid means any solid material, other than one classed as an explosive, which under normal conditions is liable to cause fires through friction, retained heat from manufacturing or processing, or which can be ignited readily and, when ignited, burns so vigorously and persistently as to create a serious transportation, handling, or disposal hazard.

(3) Spontaneously combustible and water-reactive materials shall be included in this definition.

(kkk) "Qualified expert" means, with reference to radiation protection, a person having the knowledge and training to measure ionizing radiation, to evaluate safety techniques, and to give advice regarding radiation protection needs. With reference to the calibration of radiation therapy equipment, it means a person having, in addition to the above qualifications, training and experience in the clinical applications of radiation physics to radiation therapy.

(lll) "Radiation."

(1) "Ionizing radiation" means gamma rays and x-rays, alpha and beta particles, high speed electrons, neutrons, and other nuclear particles;

(2) "Nonionizing radiation" means sound or radio waves, or visible, infrared, or ultra-violet light.

(mmm) "Radiation safety officer" means a person directly responsible for radiation protection.

(nnn) "Radioactivity" means the disintegration of unstable atomic nuclei by the emission of radiation.

(ooo) "Radiographer" means any individual who:

(1) performs non-medical radiographic operations or who, in attendance at the site where those radiographic operations are being performed, personally supervises the operations; and

(2) is responsible to the licensee or registrant or both for assuring compliance with the requirements of regulations or the conditions of the license, including any specific authorization by the department to provide training to radiographic trainees.

(ppp) "Radiographer's trainee" means any individual who, under the personal supervision of a radiographer, uses radiation machines, radiographic exposure devices, sealed sources, or related handling tools or survey instruments, in industrial radiography.

(qqq) Radiographic devices.

(1) "Radiographic exposure device" means any instrument with a sealed source fastened or contained in the instrument in which the sealed source or shielding of the source may be moved or otherwise changed from a shielded to unshielded position for purposes of making a radiographic exposure.

(2) "Source changer" means a device designed and used for replacement of sealed sources in radiographic exposure devices, including those also used for transporting and storage of sealed sources.

(3) "Shielded position" means the location within the radiographic exposure device or storage container

which, by manufacturer's design, is the proper location for storage of the sealed source.

(rrr) Non-medical radiography.

(1) "Industrial radiography" means the examination of the macroscopic structure of materials by nondestructive methods utilizing sources of radiation.

(2) "Cabinet radiography using radiation machines" means industrial radiography, using radiation machines, that is conducted in an enclosed, interlocked cabinet which prevents the radiation machine from operating unless all openings are securely closed, and is sufficiently shielded so that every location on the cabinet's exterior meets conditions for an unrestricted area as specified in K.A.R. 28-35-214, and any amendment to that rule and regulation.

(A) "Cabinet x-ray system" means an x-ray system with the x-ray tube installed in an enclosure, termed a "cabinet," which, independent from existing architectural structures except the floor on which it may be placed, is intended to contain at least that portion of a material being irradiated, provide radiation attenuation, and exclude personnel from its interior during generation of x-rays. Cabinet x-ray systems may include all x-ray systems designed primarily for the inspection of carry-on baggage at airline, railroad, and bus terminals, and in similar facilities. An x-ray tube used within a shielded part of a building, or x-ray equipment which may temporarily or occasionally incorporate portable shielding, shall not be considered a cabinet x-ray system.

(B) "Certified cabinet x-ray system" means a cabinet x-ray system which has been certified in accordance with 21 CFR 1010.2, as in effect in July 1980 as being manufactured and assembled pursuant to the provisions of 21 CFR 1020.40.

(3) "Shielded room radiography using radiation machines" means industrial radiography using radiation machines which is:

(A) conducted in an enclosed room, the interior of which is not occupied during radiographic operations;

(B) so shielded that every location on the exterior meets conditions for an unrestricted area as specified in K.A.R. 28-35-214, and any amendment to that rule and regulation; and

(C) only accessible through openings which are interlocked so that the radiation machine will not operate unless all openings are securely closed.

(4) "Permanent radiographic installation" means a shielded installation or structure designed or intended for radiography and in which radiography is regularly performed.

(5) "Storage area" means any location, facility, or vehicle which is used to store, to transport, or to secure a radiographic exposure device, a storage container, or a sealed source when it is not in use and which is locked or has a physical barrier to prevent accidental exposure, tampering with, or unauthorized removal of the device, container, or source.

(sss) "Reference man" means a hypothetical aggregation of human physical and physiological characteristics determined by international consensus. These characteristics may be used by researchers and public health workers to standardize results of experiments and to re-

late biological insult to a common base. A description of the reference man is contained in the international commission on radiological protection report, ICRP Publication 23, "Report of the Task Group on Reference Man."

(ttt) "Registrable item" means any radiation machine as defined in paragraph (ccc)(2) of this regulation.

(uuu) "Registrant" means any person who is registered with the department and is legally obligated to register with the department pursuant to these regulations and the act.

(vvv) "Registration" means completing and filing forms with the department as required by these regulations.

(www) "Regulations of the U.S. department of transportation" means the regulations in 49 CFR Parts 100-189, as in effect on December 31, 1982.

(xxx) "Research and development" means:

(1) theoretical analysis, exploration, or experimentation; or

(2) the extension of investigative findings and theories of a scientific or technical nature into practical application for experimental purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development, as used in these regulations, shall not include the internal or external administration of radiation or radioactive materials to any individual.

(yyy) "Respiratory protective equipment" means an apparatus, such as a respirator, used to reduce an individual's intake of airborne radioactive materials.

(zzz) "Sanitary sewerage" means a system of public sewers for carrying off waste water and refuse, but excluding sewage treatment facilities, septic tanks, and leach fields owned or operated by the licensee or registrant.

(aaaa) "Sealed source" means any radioactive material that is permanently encased in a container or matrix designed to prevent the leakage or escape of the radioactive material under foreseeable conditions of use and wear.

(bbbb) "Secretary" means the secretary of the department of health and environment.

(ccc) "Source of radiation" means any material, device, or equipment emitting, or capable of producing radiation.

(1) "Radioactive material" means any material, in any chemical or physical form, which emits radiation spontaneously.

(A) "By-product material" means:

(i) any radioactive material, except special nuclear material, yielded in or made radioactive by exposure to the radiation incident to the process of producing or utilizing special nuclear material; and

(ii) the tailings or wastes produced by the extraction or concentration of uranium or thorium from ore processed primarily for its source material content, including discrete surface wastes resulting from uranium or thorium solution extraction processes. Underground ore bodies depleted by these solution extraction operations shall not constitute "byproduct material" within this definition.

(B) "Source material" means:

(i) uranium or thorium, or any combination thereof, in any physical or chemical form; or

(ii) ores which contain, by weight, 0.05 percent or more of uranium, thorium or any combination thereof.

The term "source material," as used in these regulations, shall not include special nuclear material.

(C) "Special nuclear material" means:

(i) plutonium, uranium-233, uranium enriched in the isotope 233 or in the isotope 235, and any other material that the department declares by order to be special nuclear material after the U.S. nuclear regulatory commission, pursuant to the provisions of section 51 of the atomic energy act of 1954, as amended, determines it to be special nuclear material, but shall not include source material; or

(ii) any material artificially enriched by any of the foregoing, but shall not include source material.

(D) "Special nuclear material in quantities not sufficient to form a critical mass" means:

(i) uranium enriched in the isotope U-235 in quantities not exceeding 350 grams of contained U-235;

(ii) uranium enriched in the isotope uranium-233 in quantities not exceeding 200 grams of contained U-233;

(iii) plutonium not exceeding 200 grams; or

(iv) any combination of these special nuclear materials in accordance with the following formula:

$$\frac{\text{grams of contained U-235}}{350} + \frac{\text{grams of contained U-233}}{200} + \frac{\text{gram of Pu}}{200} \leq 1$$

The sum of the ratios for all of the kinds of special nuclear material in combination shall not exceed "1" (i.e. unity).

(E) "Natural radioactivity" means radioactivity of naturally occurring nuclides.

(2) "Radiation machine" means:

(A) any device which is primarily intended to produce, and is capable of producing, ionizing radiation as defined in K.A.R. 28-35-135(III) of this regulation; or

(B) any device which is not primarily intended to, but does, produce ionizing radiation at a level greater than 0.5 mR/hr at any point five centimeters from its surface. Radiation machine shall not mean any device which produces ionizing radiation only by use of radioactive materials.

(dddd) "Special form" means any licensed material within any transport group which:

(1) (A) is in solid form;

(B) has no dimension less than 0.5 millimeter or at least one dimension greater than five millimeters;

(C) does not melt, sublime, or ignite in air at a temperature of 1,000°F;

(D) does not shatter or crumble if subjected to the percussion test described in K.A.R. 28-35-144, appendix B of this part; and

(E) is not dissolved or converted into dispersible form to the extent of more than 0.005 percent by weight by immersion for one week in water at 68°F. or in air at 86°F.; or

(2) (A) is in any physical form securely contained in a capsule;

(continued)

(B) has no dimension less than 0.5 millimeter or at least one dimension greater than five millimeters;

(C) will retain its contents if subjected to the tests prescribed in K.A.R. 28-35-144, appendix B of this part; and

(D) is constructed of materials which do not melt, sublimate, or ignite in air at 1,475°F., and do not dissolve or convert into dispersible form to the extent of more than 0.005 percent by weight by immersion for one week in water at 68°F. or in air at 86°F.

(eeee) "Source material milling" means any activity that results in the production of byproduct material as defined by K.A.R. 28-35-135 (cccc)(1)(A)(ii).

(ffff) "Stochastic effect" means a health effect that occurs randomly and for which the probability of the effect occurring, rather than its severity, is assumed to be a linear function of dose without threshold. Hereditary effects and cancer incidence are examples of stochastic effects. For purposes of these regulations, "probabilistic effect" shall be considered an equivalent term.

(gggg) "Storage container" means a device in which radioactive materials are transported or stored.

(hhhh) "Stray radiation" means the sum of leakage and scattered radiation.

(1) "Leakage radiation" means all radiation, except the useful beam, coming from within the source housing.

(2) "Scattered radiation" means radiation that, during passage through matter, has been deviated in direction.

(iiii) "Subsurface studies" means of or relating to evaluation of parameters below the surface of the earth.

(1) "Field station" means a facility where radioactive sources may be stored or used and from which equipment is dispatched to temporary job sites.

(2) "Injection tool" means a device used for controlled subsurface injection of radioactive tracer material.

(3) "Logging supervisor" means the individual who uses sources of radiation or provides personal supervision of the utilization of sources of radiation at the well site.

(4) "Logging tool" means a device used subsurface to perform well-logging.

(5) "Mineral logging" means any logging performed for the purpose of mineral exploration other than oil or gas.

(6) "Personal supervision" means guidance and instruction by the supervisor who is physically present at the job site and watching the performance of the operation in such proximity that contact can be maintained and immediate assistance given as required.

(7) "Radioactive marker" means radioactive material placed subsurface or on a structure intended for subsurface use for the purpose of depth determination or direction orientation.

(8) "Source holder" means a housing or assembly into which a radioactive source is placed for the purpose of facilitating the handling and use of the source in well-logging operations.

(9) "Subsurface tracer study" means the release of a substance tagged with radioactive material for the purpose of tracing the movement or position of the tagged substance in the well-bore or adjacent formation.

(10) "Temporary job site" means a location where radioactive materials are present to perform wireline service operations or subsurface tracer studies.

(11) "Well-bore" means a drilled hole in which wireline service operations and subsurface tracer studies are performed.

(12) "Well-logging" means the lowering and raising of measuring devices or tools which may contain sources of radiation into well-bores or cavities for the purpose of obtaining information about the well or adjacent formations.

(13) "Wireline" means a cable containing one or more electrical conductors which is used to lower and raise logging tools in the well-bore.

(14) "Wireline service operation" means any evaluation or mechanical service which is performed in the well-bore using devices on a wireline.

(jjjj) "Survey" means an evaluation of the radiation hazard incident to the production, use, transfer, release, disposal, or presence of sources of radiation. When appropriate, this evaluation includes a physical survey of the location of materials or equipment or both and measurements of levels of radiation or concentrations of radioactive materials present.

(kkkk) "Test" means the process of verifying compliance with an applicable regulation.

(llll) "These regulations" mean K.A.R. 28-35-133 to 28-35-364, inclusive, and any amendments to those regulations.

(mmmm) "Transport index" means the dimensionless number, rounded up to the first decimal place, placed on the label of a package to designate the degree of control to be exercised by the carrier during transportation. The transport index is the maximum radiation level in millirem per hour at one meter from the external surface of the package.

(nnnn) "U.S. department of energy" means the department of energy established by public law 95-91, August 4, 1977, 91 Stat. 565, 42 U.S.C. 7101 *et seq.*, to the extent that the department exercises functions formerly vested in the U.S. atomic energy commission, its chairman, members, officers and components and transferred to the U.S. energy research and development administrator and to the administrator thereof pursuant to sections 104(b), (e) and (d) of the energy reorganization act of 1974, public law 93-438, October 11, 1974, 88 Stat. 1233 at 1237, effective January 19, 1975, and retransferred to the secretary of energy pursuant to section 301(a) of the department of energy organization act, public law 95-91, August 4, 1977, 91 Stat. 565 at 577-578, 42 U.S.C. 7151, effective October 1, 1977.

(oooo) "Unrefined and unprocessed ore" means ore in its natural form prior to any processing, including grinding, roasting, beneficiating, or refining.

(pppp) "Useful beam" means that part of the radiation which passes through a window, aperture, cone, or other collimating device.

(qqqq) "Waste" means those low-level radioactive wastes that are acceptable for disposal in a land disposal facility. For the purposes of this definition, low-level waste shall have the same meaning as in the low-level radioactive waste policy act, P.L. 96-573, as amended by P.L. 99-240, effective January 15, 1986; that is, radioactive waste:

(1) not classified as high-level radioactive waste, spent nuclear fuel, or byproduct material as defined in section



11e.(2) of the atomic energy act, uranium or thorium tailings and waste; and

(2) classified as low-level radioactive waste consistent with existing law and in accordance with (1) by the U.S. nuclear regulatory commission.

(rrrr) "Waste handling licensees" means persons licensed to receive and store radioactive wastes prior to disposal or persons licensed to dispose of radioactive waste or persons licensed to both receive and store prior to disposal and dispose of radioactive waste.

(ssss) "Week" means seven consecutive days starting on Sunday.

(tttt) "Weighting factor ( $w_T$ ) for an organ or tissue (T)" means the proportion of the risk of stochastic effects resulting from irradiation of that organ or tissue to the total risk of stochastic effects when the whole body is irradiated uniformly. For calculating the effective dose equivalent, the values of  $w_T$  shall be as follows:

#### ORGAN DOSE WEIGHTING FACTORS

Organ or Tissue	$w_T$
Gonads	0.25
Breast	0.15
Red bone marrow	0.12
Lung	0.12
Thyroid	0.03
Bone surfaces	0.03
Remainder	0.30 <sup>a</sup>
Whole Body	1.00 <sup>b</sup>

<sup>a</sup> 0.30 results from 0.06 for each of 5 "remainder" organs, excluding the skin and the lens of the eye, that receive the highest doses.

<sup>b</sup> For the purpose of weighting the external whole body dose, for adding it to the internal dose, a single weighting factor,  $w_T=1.0$ , has been specified. The use of other weighting factors for external exposure will be approved on a case-by-case basis until such time as specific guidance is issued.

(uuuu) "Whole body," means, for purposes of external exposure, the head, trunk, including the male gonads and shall apply to arms above the elbow, or legs above the knee.

(vvvv) "Worker" means an individual engaged in work under a license or registration or both issued by the department and controlled by a licensee or registrant or both. Worker shall not include any licensee or registrant.

(wwww) "Working level (WL)" means any combination of short-lived radon daughters in one liter of air that will result in the ultimate emission of  $1.3E+5$  MeV of potential alpha particle energy. The short-lived radon daughters are:

- (1) for radon-222:
  - (A) polonium-218;
  - (B) lead-214;
  - (C) bismuth-214; and
  - (D) polonium-214; and
- (2) for radon-220:
  - (A) polonium-216;
  - (B) lead-212;
  - (C) bismuth-212; and
  - (D) polonium-212.

(xxxx) "Working level month (WLM)" means an exposure to one working level for 170 hours or for 2,000 working hours per year.

(yyyy) "Year" means the period of time beginning in January used to determine compliance with the provisions of these regulations. The licensee or registrant may change the starting date of the year used to determine compliance by the licensee or registrant provided that the change is made at the beginning of the year and that no day is omitted or duplicated in consecutive years.

(zzzz) X-ray equipment standard definitions.

(1) "Accessible surface" means the external surface of the enclosure or housing provided by the manufacturer.

(2) "Added filter" means the filter added to the inherent filtration.

(3) "Aluminum equivalent" means the thickness of aluminum (type 1100 alloy) affording the same attenuation, under specified conditions, as the material in question. The nominal chemical composition of type 1100 aluminum alloy is 99.00 percent minimum aluminum, 0.12 percent copper.

(4) "Applicator" means a structure which determines the extent of the treatment field at a given distance from the virtual source.

(5) "Attenuation block" means a block or stack, having dimensions of 20 cm by 20 cm by 3.8 cm, of type 1100 aluminum alloy or other materials having equivalent attenuation.

(6) "Automatic exposure control" means a device which automatically controls one or more technique factors in order to obtain, at a preselected location or locations, a required quantity of radiation. (See also "Phototimer.")

(7) "Beam axis" means a line from the source through the centers of the x-ray fields.

(8) "Beam-limiting device" means a device which provides a means to restrict the dimensions of the x-ray field.

(9) "Beam monitoring system" means a system designed to detect and measure the radiation present in the useful beam.

(10) "Beam monitoring filter" means a filter used in order to scatter a beam of electrons.

(11) "Central axis of the beam" means a line passing through the virtual source and the center of the plane figure formed by the edge of the first beam-limiting device.

(12) "Certified components" means components of x-ray systems which are subject to regulations promulgated under public law 90-602, the radiation control for health and safety act of 1968 and amendments thereto in effect July 1980.

(13) "Certified system" means any x-ray system which has one or more certified component or components.

(14) "Changeable filters" means any filter, exclusive of inherent filtration, which can be removed from the useful beam through any electronic, mechanical or physical process.

(15) "Coefficient of variation" or "C" means the ratio of the standard deviation to the mean value of a population of observations. It is estimated using the following equation:

(continued)

$$c = \frac{s}{\bar{x}} = \frac{1}{\bar{x}} \left( \sum_{i=1}^n \frac{(x_i - \bar{x})^2}{n-1} \right)^{1/2}$$

where

- s = Estimated standard deviation of the population.  
 x = Mean value of observations in sample.

(16) "Cooling curve" means the graphical relationship between heat units stored and cooling time.

(17) "Contact therapy" means that the x-ray tube port is put in contact with, or within five centimeters of, the surface being treated.

(18) "Control panel" means that part of the x-ray control upon which are mounted the switches, knobs, push-buttons, and other hardware necessary for manually setting the technique factors.

(19) "Deadman switch" means a switch constructed so that circuit closing can be maintained only by continuous pressure by the operator.

(20) "Diagnostic source assembly" means the tube housing assembly with a beam-limiting device attached.

(21) "Diagnostic-type tube housing" means an x-ray tube housing constructed so that the leakage radiation, at a distance of one meter from the target, does not exceed 100 milliroentgens in one hour when the tube is operated at the maximum rate of continuous tube current and the maximum rate of tube potential.

(22) "Diagnostic x-ray system" means an x-ray system designed for irradiation of any part of the human body for the purpose of diagnosis or visualization.

(23) "Direct scattered radiation" means that scattered radiation which has been deviated in direction only by materials irradiated by the useful beam. See "scattered radiation," K.A.R. 28-35-135 (hhhh)(2).

(24) "Dose monitoring system" means a system of devices for the detection, measurement, and display of quantities of radiation.

(25) "Dose monitor unit" means a unit response from the dose monitoring system from which the absorbed dose can be calculated.

(26) "Entrance exposure rate" means the roentgens per unit time at the point where the center of the useful beam enters any individual.

(27) "Existing equipment" means therapy systems subject to K.A.R. 28-35-250a which were manufactured on or before January 1, 1985.

(28) "Field emission equipment" means equipment that uses an x-ray tube in which electron emission from the cathode is due solely to the action of an electric field.

(29) "Field-flattening filter" means a filter used to provide dose uniformity over the area of a useful beam of x-rays at a specified depth.

(30) "Field size" means the dimensions along the major axes of an area in a plane perpendicular to the specified direction of the beam of incident radiation at the normal treatment distance, and is defined by the intersection of the major axes and the 50 percent isodose line. Material shall be placed in the beam so that the maximum dose is produced at the normal treatment distance when field size is being determined.

(31) "Filter" means material placed in the path of the useful beam of x-rays to absorb, preferentially, the less penetrating radiations.

(32) "Fluoroscopic imaging assembly" means a component which comprises a reception system in which x-ray photons produce a fluoroscopic image. It includes equipment housings, any electrical interlocks, the primary protective barrier, and structural material providing linkage between the image receptor and the diagnostic source assembly.

(33) "Focal spot" means the area projected on the anode of the x-ray tube by the electrons accelerated from the cathode and from which the useful beam originates.

(34) "Gantry" means that part of the system supporting and allowing possible movements of the radiation head.

(35) "General purpose radiographic x-ray system" means any radiographic x-ray system which, by design, is not limited to radiographic examination of specific anatomical regions.

(36) "Gonadal shield" means a protective barrier for the testes or ovaries.

(37) "Half-value layer (HVL)" means the thickness of specified material which attenuates the beam of radiation to an extent that the exposure rate is reduced to one half of its original value. The contribution of all scattered radiation, other than any which might be present initially in the beam concerned, shall be excluded from this definition.

(38) "Healing arts screening" means the testing of human beings using x-ray machines for the detection or evaluation of health indications when such tests are not specifically and individually ordered by a licensed practitioner of the healing arts legally authorized to prescribe such x-ray tests for the purpose of diagnosis or treatment.

(39) "Heat unit" means a unit of energy equal to the product of the peak kilovoltage, milliamperes, and seconds, i.e., kVp × mA × second.

(40) "Image intensifier" means a device which converts, instantaneously by means of photoemissive surfaces and electronic circuiting, an x-ray pattern into a light pattern of greater intensity than would have been provided by the original x-ray pattern.

(41) "Image receptor" means any device, such as a fluorescent screen or radiographic film, which transforms incident x-ray photons into a visible image or into another form which can be made into a visible image by further transformations.

(42) "Image receptor support" means, for mammographic systems, that part of the system designed to support the image receptor in a horizontal plane during a mammographic examination.

(43) "Inherent filtration" means the filtration permanently in the useful beam including the window of the x-ray tube and any permanent tube or source enclosure.

(44) "Interruption of irradiation" means the stopping of irradiation with the possibility of continuing irradiation without resetting of operating conditions at the control panel.

(45) "Irradiation" means the exposure of matter to ionizing radiation.

(46) "Isocenter" means a fixed point in space located at the center of the smallest sphere through which the central axis of the beams passes in all conditions.

(47) "Kilovolts peak (kVp)" means the same as "peak tube potential."

(48) "kV" means kilovolts.

(49) "kWs" means kilowatt second. It is equivalent to 103 kV.mA.s, i.e.,

$$\frac{kWs}{10^3} = \frac{(X)kV \times (Y)mA \times (Z)s \times kWs}{10^3 kV \times mA \times s} = \frac{XYZ}{10^3} kW$$

(50) "Lead equivalent" means the thickness of lead affording the same attenuation, under specified conditions, as the material in question.

(51) "Leakage radiation" means radiation emanating from the diagnostic or therapeutic source assembly except for:

(A) the useful beam; and

(B) radiation produced when the exposure switch or timer is not activated.

(52) "Leakage technique factors" means the technique factors associated with the tube housing assembly which are used in measuring leakage radiation. The leakage technique factors shall be defined as follows:

(A) for diagnostic source assemblies intended for capacitor energy storage equipment, the maximum rated number of exposures in an hour for operation at the maximum rated peak tube potential, with the quantity of charge per exposure being 10 millicoulombs (mAs) or the minimum obtainable from the unit, whichever is larger;

(B) for diagnostic source assemblies intended for field emission equipment rated for pulsed operation, the maximum rated number of x-ray pulses in an hour for operation at the maximum rated peak tube potential; and

(C) for all other diagnostic or therapeutic source assemblies, the maximum rated peak tube potential and the maximum rated continuous tube current for the maximum rated peak tube potential.

(53) "Light field" means that area of the intersection of the light beam from the beam-limiting device and one of the set of planes parallel to and including the plane of the image receptor, whose perimeter is the locus of points at which the illumination is one-fourth of the maximum in the intersection.

(54) "Line-voltage regulation" means the difference between the no-load and the load line potentials expressed as a percent of the load line potential. It is calculated using the following equation:

$$\text{Percent line-voltage regulation} = 100 (V_n - V_l) / V_l$$

where

$V_n$  = No-load line potential and

$V_l$  = Load line potential.

(55) "mA" means milliampere.

(56) "mAs" means milliampere second.

(57) "Maximum line current" means the root-mean-square current in the supply line of an x-ray machine operating at its maximum rating.

(58) "Moving beam therapy" means radiation therapy with relative displacement of the useful beam and the patient during irradiation. It includes arc therapy, skip therapy, and rotational therapy.

(59) "New equipment" means systems subject to K.A.R. 28-35-249 which were manufactured after January 1, 1985.

(60) "Normal treatment distance" means:

(A) for electron irradiation, the virtual source to surface distance along the central axis of the useful beam as specified by the manufacturer for the applicator; or

(B) for x-ray irradiation, the virtual source to isocenter distance along the central axis of the useful beam. For non-isocentric equipment, this distance shall be that specified by the manufacturer.

(61) "Patient" means an individual subjected to healing arts examination, diagnosis, or treatment.

(62) "Peak tube potential" means the maximum value of the potential differences across the x-ray tube during an exposure.

(63) "Phantom" means a volume of material behaving in a manner similar to tissue with respect to the attenuation and scattering of radiation.

(64) "Phototimer" means a method for controlling radiation exposures to image receptors by limiting the amount of radiation which reaches a radiation monitoring device or devices. The radiation monitoring device or devices are part of an electronic circuit which controls the duration of time the tube is activated. (See also "Automatic exposure control.")

(65) "Position indicating device (PID)" means a device on dental x-ray equipment used to indicate the beam position and to establish a definite source to skin surface distance. It may or may not incorporate or serve as a beam-limiting device.

(66) "Primary dose monitoring system" means a system which will monitor the useful beam during irradiation and which will terminate irradiation when a pre-selected number of dose monitor units have been acquired.

(67) "Protective apron" means an apron made of radiation-absorbing materials, used to reduce radiation exposure.

(68) "Protective glove" means a glove made of radiation-absorbing materials used to reduce radiation exposure.

(69) "Radiation detector" means a device which in the presence of radiation provides a signal or other indication suitable for use in measuring one or more quantities of incident radiation.

(70) "Radiation head" means the structure from which the useful beam emerges.

(71) "Radiation therapy simulation system" means a radiographic or fluoroscopic x-ray system intended for localizing the volume to be exposed during radiation therapy and confirming the position and size of the therapeutic irradiation field.

(72) "Radiograph" means an image receptor on which the image is created directly or indirectly by an x-ray pattern, which results in a permanent record.

(73) "Radiographic imaging system" means any system whereby a permanent or semi-permanent image is recorded on an image receptor by the action of ionizing radiation.

(74) "Radiological physicist" means an individual who:

(A) is certified by the American board of radiology in therapeutic radiological physics, radiological physics, or x-and gamma-ray physics;

(continued)

(B) (i) has a bachelor's degree in one of the physical sciences or engineering; and

(ii) three years of full-time experience working in therapeutic radiological physics under the direction of a physicist certified by the American board of radiology, with work duties involving the calibration and spot checks of a medical accelerator or a sealed source teletherapy unit; or

(C) (i) has a master's or a doctor's degree in physics, biophysics, radiological physics, health physics, or engineering;

(ii) has had one year of full-time training in therapeutic radiological physics; and

(iii) has had one year of full-time work experience in a radiotherapy facility where the individual's duties involve calibration and spot checks of a medical accelerator or a sealed source teletherapy unit.

(75) "Rating" means the operating limits as specified by the component manufacturer.

(76) "Recording" means producing a permanent form of an image resulting from x-ray photons such as film or videotape.

(77) "Response time" means the time required for an instrument system to reach 90 percent of its final reading when the radiation-sensitive volume of the instrument system is exposed to a step change in radiation flux from zero to a level sufficient to provide a steady state mid-scale reading.

(78) "Secondary dose monitoring system" means a system which will terminate irradiation if the primary system fails.

(79) "Shadow tray" means a device attached to the radiation head to support auxiliary beam-limiting material.

(80) "Shutter" means a device, generally of lead, attached to an x-ray tube housing assembly which can totally intercept the useful beam and which has a lead equivalency not less than that of the tube housing assembly.

(81) "Source" means the focal spot of the x-ray tube.

(82) "Source-image receptor distance (SID)" means the distance from the source to the center of the input surface of the image receptor.

(83) "Spot check" means a procedure which is performed to assure that a previous calibration continues to be valid.

(84) "Spot film" means a radiograph which is made during a fluoroscopic examination to permanently record conditions which exist during that fluoroscopic procedure.

(85) "Spot-film device" means a device intended to either transport and position a radiographic image receptor between the x-ray source and fluoroscopic image receptor or intended to position a radiographic image receptor between the x-ray source and fluoroscopic image receptor. It includes a device intended to hold a cassette over the input end of an image intensifier for the purpose of making a radiograph.

(86) "SSD" means the distance between the source and the skin of the patient.

(87) "Stationary beam therapy" means radiation therapy without relative displacement of the useful beam and the patient during irradiation.

(88) "Target" means that part of a radiation head which by design intercepts a beam of accelerated particles with subsequent emission of other radiation.

(89) "Technique factors" means the conditions of operation. They are specified as follows:

(A) for capacitor energy storage equipment, peak tube potential in kV and quantity of charge in mAs;

(B) for field emission equipment rated for pulsed operation, peak tube potential in kV and number of x-ray pulses; and

(C) for all other equipment, peak tube potential in kV and either tube current in mA and exposure time in seconds, or the product of tube current and exposure time in mAs.

(90) "Termination of irradiation" means the stopping of irradiation in a fashion which will not permit continuance of irradiation without the resetting of operating conditions at the control panel.

(91) "Therapeutic-type tube housing" means:

(A) for x-ray equipment not capable of operating at 500 kVp or above, an x-ray tube housing so constructed that the leakage radiation, at a distance of one meter from the source, does not exceed one roentgen in an hour when the tube is operated at its maximum rated continuous current for the maximum rated tube potential; and

(B) for x-ray equipment capable of operating at 500 kVp or above, an x-ray tube housing so constructed that the leakage radiation, at a distance of one meter from the source, does not exceed 0.1 percent of the useful beam dose rate at one meter from the source for any of its operating conditions.

Areas of reduced protection shall be acceptable if the average reading over any 100 cm<sup>2</sup> area, at one meter distance from the source, does not exceed the values given in paragraphs (A) or (B), above.

(92) "Traceable to a national standard" means that a quantity or a measurement has been compared to a national standard directly or indirectly through one or more intermediate steps and that all comparisons have been documented.

(93) "Tube" means an x-ray tube, unless otherwise specified.

(94) "Tube housing assembly" means the tube housing with tube installed. It includes high-voltage or filament transformers or both and other appropriate elements when they are contained within the tube housing.

(95) "Tube rating chart" means the set of curves which specify the rated limits of operation of the tube in terms of the technique factors.

(96) "Variable-aperture beam-limiting device" means a beam-limiting device which has capacity for stepless adjustment of the x-ray field size at a given SID.

(97) "Visible area" means that portion of the input surface of the image receptor over which incident x-ray photons produce a visible image.

(98) "Virtual source" means a point from which radiation appears to originate.

(99) "Wedge filter" means an added filter effecting continuous progressive attenuation of all or part of the useful beam.

(100) X-ray, analytical.

(A) "Analytical x-ray equipment" means equipment used for x-ray diffraction or fluorescence analysis.

(B) "Analytical x-ray system" means a group of local and remote components utilizing x-rays to determine the elemental composition, or to examine the microstructure, of materials. "Local components" include those components that are struck by x-rays, including radiation source housings, port, and shutter assemblies, collimators, sample holders, cameras, goniometers, detectors and shielding. "Remote components" include power supplies, transformers, amplifiers, readout devices, and control panels.

(C) "Fail-safe characteristics" means a design feature which causes beam port shutters to close, or otherwise prevents emergence of the primary beam, upon the failure of a safety or warning device.

(D) "Normal operating procedures" mean operating procedures for conditions suitable for analytical purposes with shielding and barriers in place. These shall not include maintenance procedures, but shall include routine alignment procedures. Routine and emergency radiation safety considerations shall be considered part of these procedures.

(E) "Open-beam configuration" means an analytical x-ray system in which an individual could accidentally place some part of the individual's body in the primary beam path during normal operation.

(F) "Primary beam" means ionizing radiation which passes through an aperture of the source housing by a direct path from the x-ray tube or a radioactive source located in the radiation source housing.

(101) "X-ray control" means a device which controls input power to the x-ray high-voltage generator or the x-ray tube. It includes timers, phototimers, automatic brightness stabilizers, and similar devices which control the technique factors of an x-ray exposure.

(102) "X-ray equipment" means an x-ray system, subsystem, or component thereof, which may be either mobile, stationary, or portable.

(A) "Mobile x-ray equipment" means x-ray equipment mounted on a permanent base with wheels or casters or both for moving while completely assembled.

(B) "Stationary x-ray equipment" means x-ray equipment which is installed in a fixed location.

(C) "Portable x-ray equipment" means x-ray equipment designed to be hand-carried.

(103) "X-ray field" means that area of the intersection of the useful beam and any one of the set of planes parallel to and including the plane of the image receptor, whose perimeter, as established by the beam limiting device, is the locus of points at which the exposure rate is one-fourth of the maximum in the intersection.

(104) "X-ray high-voltage generator" means a device which transforms electrical energy from the potential supplied by the x-ray control to the tube operating potential. The device may also include means for transforming alternating current to direct current, filament transformers for the x-ray tube or tubes, high voltage switches, electrical protective devices, and other appropriate elements.

(105) "X-ray system" means an assemblage of components for the controlled production of x-rays. It shall

include, at a minimum, an x-ray high-voltage generator, an x-ray control, a tube housing assembly, a beam-limiting device, and supporting structures. Additional components which function with the system shall be considered integral parts of the system.

(106) "X-ray tube" means any electron tube which is designed for the conversion of electrical energy into x-ray energy. (Authorized by K.S.A. 1992 Supp. 48-1607; implementing K.S.A. 1993 Supp. 48-1603, 48-1607; effective Jan. 1, 1970; amended May 1, 1976; amended, T-85-43, Dec. 19, 1984; amended May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-144a.** (a) As used in these regulations, the quality factors for converting absorbed dose to dose equivalent are shown in table I.

TABLE I  
QUALITY FACTORS AND ABSORBED DOSE EQUIVALENCIES

TYPE OF RADIATION	Quality Factor (Q)	Absorbed Dose Equal to a Unit Dose Equivalent <sup>a</sup>
X, gamma, or beta radiation and high-speed electrons	1	1
Alpha particles, multiple-charged particles, fission fragments and heavy particles of unknown charge	20	0.05
Neutrons of unknown energy	10	0.1
High-energy protons	10	0.1

<sup>a</sup> Absorbed dose in gray equal to 1 Sv or the absorbed dose in rad equal to 1 rem.

(b) If it is more convenient to measure the neutron fluence rate than to determine the neutron dose equivalent rate in sievert per hour or rem per hour, as provided in K.A.R. 28-35-144a(a), 0.01 Sv (1 rem) of neutron radiation of unknown energies may, for purposes of these regulations, be assumed to result from a total fluence of 25 million neutrons per square centimeter incident upon the body. If sufficient information exists to estimate the approximate energy distribution of the neutrons, the licensee or registrant may use the fluence rate per unit dose equivalent or the appropriate Q value from table II to convert a measured tissue dose in gray or rad to dose equivalent in sievert or rem.

TABLE II  
MEAN QUALITY FACTORS, Q, AND FLUENCE PER UNIT DOSE EQUIVALENT FOR MONOENERGETIC NEUTRONS

	Neutron Energy MeV	Quality Factor <sup>a</sup> (Q)	Fluence per Unit Dose Equivalent <sup>b</sup> (neutrons cm <sup>-2</sup> rem <sup>-1</sup> )	Fluence per Unit Dose Equivalent <sup>b</sup> (neutrons cm <sup>-2</sup> Sv <sup>-1</sup> )
(thermal)	2.5E-8	2	980E+6	980E+8
	1E-7	2	980E+6	980E+8
	1E-6	2	810E+6	810E+8
	1E-5	2	810E+6	810E+8
	1E-4	2	840E+6	840E+8
	1E-3	2	980E+6	980E+8
	1E-2	2.5	1010E+6	1010E+8
	1E-1	7.5	170E+6	170E+8
	5E-1	11	39E+6	39E+8
	1	11	27E+6	27E+8

(continued)



2.5	9	29E+6	29E+8
5	8	23E+6	23E+8
7	7	24E+6	24E+8
10	6.5	24E+6	24E+8
14	7.5	17E+6	17E+8
20	8	16E+6	16E+8
40	7	14E+6	14E+8
60	5.5	16E+6	16E+8
1E+2	4	20E+6	20E+8
2E+2	3.5	19E+6	19E+8
3E+2	3.5	16E+6	16E+8
4E+2	3.5	14E+6	14E+8

<sup>a</sup> Value of quality factor (Q) at the point where the dose equivalent is maximum in a 30-centimeter diameter cylinder tissue-equivalent phantom.

<sup>b</sup> Monoenergetic neutrons incident normally on a 30-centimeter diameter cylinder tissue-equivalent phantom.

(Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-199a. Schedule D; Groups of medical uses of radioactive material.** (a) Group I shall include prepared radiopharmaceuticals which are used for diagnostic studies involving measurements of uptake, dilution and excretion and for which the food and drug administration (FDA) has accepted a "notice of claimed investigational exemption for a new drug" (IND) or approved a "new drug application" (NDA).

(b) Group II shall include prepared radiopharmaceuticals which are used for diagnostic studies involving imaging and tumor localizations and for which the food and drug administration (FDA) has accepted a "notice of claimed investigational exemption for a new drug" (IND) or approved a "new drug application" (NDA) and any radioactive material in a radiopharmaceutical prepared from a reagent kit listed in K.A.R. 28-35-199a (c) Group III.

(c) Group III shall include generators and reagent kits which are used following the manufacturer's instructions for the preparation of diagnostic radiopharmaceuticals, and for which the food and drug administration (FDA) has accepted a "notice of claimed investigational exemption for a new drug" (IND) or approved a "new drug application" (NDA).

(d) Group IV shall include prepared radiopharmaceuticals which are used for certain therapeutic uses that do not normally require hospitalization for purposes of radiation safety. The food and drug administration (FDA) shall have accepted a "notice of claimed exemption for a new drug" (IND) or approved a "new drug application" (NDA) for any radiopharmaceutical used in this group.

(e) Group V shall include prepared radiopharmaceuticals which are used for certain therapeutic uses that normally require hospitalization for purposes of radiation safety and for which the food and drug administration (FDA) has accepted a "notice of claimed investigational exemption for a new drug" (IND) or approved a "new drug application" (NDA).

(f) Group VI shall include sources and devices containing radioactive material which may be used for the following:

(1) Americium-241 as a sealed source in a device for bone mineral analysis;

(2) Cesium-137 encased in needles and applicator cells for topical, interstitial, and intracavitary treatment of cancer;

(3) Cobalt-60 encased in needles and applicator cells for topical, interstitial, and intracavitary treatment of cancer;

(4) Gold-198 as seeds for interstitial treatment of cancer;

(5) Iodine-125 as a sealed source in a device for bone mineral analysis;

(6) Iridium-192 as seeds encased in nylon ribbon for interstitial treatment of cancer;

(7) Strontium-90 sealed in an applicator for treatment of superficial eye conditions;

(8) Radon-222 as seeds for topical, interstitial, and intracavitary treatment of cancer;

(9) Radium-226 as a sealed source for topical, interstitial, and intracavitary treatment of cancer;

(10) Iodine-125 as seeds for interstitial treatment of cancer;

(11) Iodine-125 as a sealed source in a portable device for bone imaging and foreign body detection; and

(12) Palladium-103 as a sealed source in seeds for interstitial treatment of cancer. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-86-37, Dec. 11, 1985; effective May 1, 1986; amended Oct. 17, 1994.)

**28-35-211a. Persons to whom the standards apply.** (a) Except as specifically provided in other parts of these regulations, these regulations shall apply to persons licensed or registered by the department to receive, possess, use, transfer, or dispose of sources of radiation. The limits in these regulations shall not apply to:

(1) doses due to background radiation;

(2) exposure of patients to radiation for the purpose of medical diagnosis or therapy; or

(3) voluntary participation in medical research programs.

(b) Nothing in these regulations shall be construed as limiting actions that may be necessary to protect health and safety. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Oct. 17, 1994.)

**28-35-211c. Application of new regulations.**

(a) Any existing license or registration condition that is more restrictive than regulations adopted January 1, 1994 shall remain in force until there is an amendment or renewal of the license or registration.

(b) If a license or registration condition exempts a licensee or registrant from a provision of a regulation in effect on or before January 1, 1995, it also exempts the licensee or registrant from the corresponding provision of the regulation after that date.

(c) If a license or registration condition cites provisions of the regulations in effect prior to January 1, 1995, which do not correspond to any provisions of these regulations, the license or registration condition shall remain in force until there is an amendment or renewal of the license or registration that modifies or removes this condition. (Authorized by and implementing K.S.A. 1993 Supp. 48-1603, 48-1607; effective Oct. 17, 1994.)

**28-35-211d. Radiation protection programs.** (a) Each licensee or registrant shall develop, document, and implement a radiation protection program sufficient to

ensure compliance with the provisions of these regulations.

(b) The licensee or registrant shall use, to the extent practicable, procedures and engineering controls based upon sound radiation protection principles to achieve occupational doses and public doses that are as low as is reasonably achievable (ALARA).

(c) The licensee or registrant shall, at intervals not to exceed 12 months, review the radiation protection program content and implementation. (Authorized by and implementing K.S.A. 1993 Supp. 48-1603, 48-1607; effective Oct. 17, 1994.)

**28-35-212a. Occupational dose limits for adults.**

(a) Each licensee or registrant shall control the occupational dose to individual adults, except for planned special exposures pursuant to K.A.R. 28-35-212f, to the following dose limits.

(1) The annual limit shall be the more limiting of:

(A) the total effective dose equivalent being equal to 0.05 Sv (5 rem); or

(B) the sum of the deep dose equivalent and the committed dose equivalent to any individual organ or tissue other than the lens of the eye being equal to 0.50 Sv (50 rem).

(2) The annual limits to the lens of the eye, to the skin, and to the extremities shall be:

(A) an eye dose equivalent of 0.15 Sv (15 rem); and

(B) a shallow dose equivalent of 0.50 Sv (50 rem) to the skin or to any extremity.

(b) Doses received in excess of the annual limits, including doses received during accidents, emergencies, and planned special exposures, shall be subtracted from the limits for planned special exposures that the individual may receive during the current year and during the individual's lifetime.

(c) The deep dose equivalent and shallow dose equivalent assigned to an individual shall be assessed using that individual's monitoring device if the device is in the region of highest potential exposure. If the device is not in the region of the portion of the body receiving the highest exposure, the assigned deep dose equivalent shall be determined as follows:

(1) the deep dose equivalent, eye dose equivalent and shallow dose equivalent may be assessed from surveys; or

(2) the deep dose equivalent, eye dose equivalent and shallow dose equivalent may be assessed from other radiation measurements.

(d) Derived air concentration (DAC) and annual limit on intake (ALI) values, in appendix B, table I, published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994, shall be used to determine the individual's dose and to demonstrate compliance with the occupational dose limits.

(e) Notwithstanding the annual dose limits, the licensee shall limit the soluble uranium intake by an individual to 10 milligrams in a week in consideration of chemical toxicity, in accordance with footnote 3 or appendix B published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994.

(f) Each licensee or registrant shall reduce the dose that an individual may be allowed to receive in the current year by the amount of occupational dose received while employed by any other person. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept 20, 1993; amended Oct. 17, 1994.)

**28-35-212b. Compliance with requirements for summation of external and internal doses.** (a) (1) If the licensee or registrant is required to monitor pursuant to both K.A.R. 28-35-217b (a) and (d), the licensee or registrant shall demonstrate compliance with the dose limits by summing external and internal doses.

(2) The licensee or registrant may demonstrate compliance with the requirements for summation of external and internal doses pursuant to K.A.R. 28-35-212b(b), (c), and (d). The dose equivalents for the lens of the eye, the skin, and the extremities shall not be included in the summation, but shall be subject to separate limits.

(3) If the licensee or registrant is required to monitor only pursuant to K.A.R. 28-35-217b(a) or only pursuant to K.A.R. 28-35-217b(d), then summation is not required to demonstrate compliance with the dose limits.

(b) Intake by inhalation. If the only intake of radionuclides is by inhalation, the total effective dose equivalent limit is not exceeded if the sum of the deep dose equivalent divided by the total effective dose equivalent limit, and one of the following, does not exceed unity:

(1) the sum of the fractions of the inhalation ALI for each radionuclide;

(2) the total number of derived air concentration-hours (DAC-hour) for all radionuclides divided by 2,000; or

(3) the sum of the calculated committed effective dose equivalents to all significantly irradiated organs or tissues (T) calculated from bioassay data using appropriate biological models and expressed as a fraction of the annual limit. For purposes of this requirement, an organ or tissue is deemed to be significantly irradiated if, for that organ or tissue, the product of the weighting factors,  $w_T$ , and the committed dose equivalent,  $H_{T,50}$  per unit intake is greater than 10 percent of the maximum weighted value of  $H_{50}$ , that is,  $w_T H_{T,50}$  per unit intake for any organ or tissue.

(c) Intake by oral ingestion. If the occupationally exposed individual receives an intake of radionuclides by oral ingestion greater than 10 percent of the applicable oral ALI, the licensee or registrant shall account for this intake and include it in demonstrating compliance with the limits.

(d) Intake through wounds or absorption through skin. The licensee or registrant shall evaluate, and to the extent practical, account for intakes through wounds or skin absorption. The intake through intact skin has been included in the calculation of DAC for hydrogen-3 and does not need to be evaluated or accounted for pursuant to this subsection. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-212c. Determination of external dose from airborne radioactive material.** (a) When determining the

(continued)

dose from airborne radioactive material, the licensee or registrant shall include the contribution to the deep dose equivalent, eye dose equivalent, and shallow dose equivalent from external exposure to the radioactive cloud.

(b) Airborne radioactivity measurements and DAC values shall not be used as the primary means to assess the deep dose equivalent when the airborne radioactive material includes radionuclides other than noble gases or if the cloud of airborne radioactive material is not relatively uniform. The determination of the deep dose equivalent to an individual shall be based upon measurements using instruments or individual monitoring devices. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-212d. Determination of internal exposure.**

(a) For purposes of assessing dose used to determine compliance with occupational dose equivalent limits, each licensee or registrant shall, when required pursuant to K.A.R. 28-35-217b, take suitable and timely measurements of:

- (1) concentrations of radioactive materials in air in work areas;
  - (2) quantities of radionuclides in the body;
  - (3) quantities of radionuclides excreted from the body;
- or
- (4) combinations of these measurements.

(b) Unless respiratory protective equipment is used, as provided in K.A.R. 28-35-212g, or the assessment of intake is based on bioassays, the licensee or registrant shall assume that an individual inhales radioactive material at the airborne concentration in which the individual is present.

(c) When specific information on the physical and biochemical properties of the radionuclides taken into the body or the behavior of the material in an individual is known, the licensee or registrant may:

(1) use that information to calculate the committed effective dose equivalent, and if used, the licensee or registrant shall document that information in the individual's record;

(2) prior to approval of the department, adjust the DAC or ALI values to reflect the actual physical and chemical characteristics of airborne radioactive material; and

(3) separately assess the contribution of fractional intakes of Class D, W, or Y compounds of a given radionuclide to the committed effective dose equivalent.

(d) If the licensee or registrant chooses to assess intakes of class Y material using the measurements given in K.A.R. 28-35-212d(a)(2) or (3), the licensee or registrant may delay the recording and reporting of the assessments for periods up to seven months, unless otherwise required by K.A.R. 28-35-229a or K.A.R. 28-35-230a, in order to make additional measurements basic to the assessments.

(e) If the identity and concentration of each radionuclide in a mixture are known, the fraction of the DAC applicable to the mixture for use in calculating DAC-hours shall be either:

(1) the sum of the ratios of the concentration to the appropriate DAC value, that is, D, W, or Y, from appendix B published in "Kansas Department of Health

and Environment Appendices to Part 4: Standard for Protection Against Radiation," effective April, 1994 for each radionuclide in the mixture; or

(2) the ratio of the total concentration for all radionuclides in the mixture to the most restrictive DAC value for any radionuclide in the mixture.

(f) If the identity of each radionuclide in a mixture is known, but the concentration of one or more of the radionuclides in the mixture is not known, the DAC for the mixture shall be the most restrictive DAC of any radionuclide in the mixture.

(g) When a mixture of radionuclides in air exists, a licensee or registrant may disregard certain radionuclides in the mixture if all of the following requirements are met:

(1) the licensee or registrant uses the total activity of the mixture in demonstrating compliance with the dose limits in K.A.R. 28-35-212b and in complying with the monitoring requirements in K.A.R. 28-35-217b(d);

(2) the concentration of any radionuclide disregarded is less than 10 percent of its DAC; and

(3) the sum of these percentages for all of the radionuclides disregarded in the mixture does not exceed 30 percent.

(h) When determining the committed effective dose equivalent, the following information may be considered.

(1) In order to calculate the committed effective dose equivalent, the licensee or registrant may assume that the inhalation of one ALI, or an exposure of 2,000 DAC-hours, results in a committed effective dose equivalent of 0.05 Sv (5 rem) for radionuclides that have their ALIs or DACs based on the committed effective dose equivalent.

(2) For an ALI and the associated DAC determined by the nonstochastic organ dose limit of 0.50 Sv (50 rem), the intake of radionuclides that would result in a committed effective dose equivalent of 0.05 Sv (5 rem), that is, the stochastic ALI, is listed in parentheses appendix B, table I in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994. The licensee or registrant may, as a simplifying assumption, use the stochastic ALI to determine committed effective dose equivalent. However, if the licensee or registrant uses the stochastic ALI, the licensee or registrant shall also demonstrate that the limit in K.A.R. 28-35-212a(a)(1)(ii) is met. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-212e. Determination of prior occupational dose.** (a) For each individual who may enter the licensee's or registrant's restricted or controlled area and is likely to receive, in a year, an occupational dose requiring monitoring pursuant to K.A.R. 28-35-217b, the licensee or registrant shall:

(1) determine the occupational radiation dose received during the current year; and

(2) attempt to obtain the records of lifetime cumulative occupational radiation dose.

(b) Prior to permitting an individual to participate in a planned special exposure, the licensee or registrant shall determine:

(1) the internal and external doses from all previous planned special exposures;

(2) all doses in excess of the limits, including doses received during accidents and emergencies, by the individual; and

(3) all lifetime cumulative occupational radiation dose.

(c) In complying with the requirements of K.A.R. 28-35-212e(a) a licensee or registrant may:

(1) accept, as a record of the occupational dose that the individual received during the current year, a written signed statement from the individual, or from the individual's most recent employer for work involving radiation exposure, that discloses the nature and the amount of any occupational dose that the individual received during the current year;

(2) accept, as the record of lifetime cumulative radiation dose, an up-to-date record on a form prescribed by the department or an equivalent form, signed by the individual and countersigned by an appropriate official of the most recent employer for work involving radiation exposure, or the individual's current employer, if the individual is not employed by the licensee or registrant; and

(3) obtain reports of the individual's dose equivalent from the most recent employer for work involving radiation exposure, or the individual's current employer, if the individual is not employed by the licensee or registrant, by telephone, telegram, facsimile, or letter. The licensee or registrant shall request a written verification of the dose data if the authenticity of the transmitted report cannot be established.

(d) (1) The licensee or registrant shall record the exposure history, as required by K.A.R. 28-35-212e(a), on a form prescribed by the department, or on a clear and legible record which includes all the information required on that form. The form or record shall show each period in which the individual received occupational exposure to radiation or radioactive material and shall be signed by the individual who received the exposure. For each period for which the licensee obtains reports, the licensee or registrant shall use the dose shown in the report in preparing the history. For any period in which the licensee or registrant does not obtain a report, the licensee or registrant shall place a notation on history indicating the periods of time for which data are not available.

(2) Licensees or registrants shall not be required to reevaluate the separate external dose equivalents and internal committed dose equivalents or intakes of radionuclides assessed pursuant to the regulations in effect before January 1, 1994. Although occupational exposure histories obtained and recorded before January 1, 1994, did not include effective dose equivalent, the histories may be used in the absence of specific information on the intake of radionuclides by the individual.

(e) If the licensee or registrant is unable to obtain a complete record of an individual's current and previously accumulated occupational dose, the licensee or registrant shall assume:

(1) in establishing administrative controls under K.A.R. 28-35-212a(f) for the current year, that the allow-

able dose limit for the individual has been reduced by 12.5 mSv (1.25 rem) for each quarter for which records were unavailable and the individual was engaged in activities that could have resulted in occupational radiation exposure; and

(2) that the individual is not available for planned special exposures.

(f) The licensee or registrant shall retain the records of exposure history until the department terminates each pertinent license or registration requiring this record. The licensee or registrant shall retain information used in preparing records of exposure history for three years after the record is made. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-212f. Planned special exposures.** (a) A licensee or registrant may authorize an adult worker to receive doses in addition to and accounted for separately from the doses received under the limits specified in K.A.R. 28-35-212a.

(b) The authorization of doses under K.A.R. 28-35-212f(a), called planned special exposure, shall only be permitted if each of the following conditions is satisfied.

(1) The licensee or registrant shall authorize a planned special exposure only in an exceptional situation when alternatives that might avoid the higher exposure are unavailable or impractical.

(2) The licensee or registrant, and employer if the employer is not the licensee or registrant, shall specifically authorize the planned special exposure, in writing, before the exposure occurs.

(3) Before a planned special exposure, the licensee or registrant shall ensure that each individual involved is:

(A) informed of the purpose of the planned operation;

(B) informed of the estimated doses and associated potential risks and specific radiation levels or other conditions that might be involved in performing the task; and

(C) instructed in the measures to be taken to keep the dose ALARA considering other risks that may be present.

(4) Prior to permitting an individual to participate in a planned special exposure, the licensee or registrant shall ascertain prior doses as required by K.A.R. 28-35-212e during the lifetime of the individual for each individual involved.

(5) Subject to K.A.R. 28-35-212a(b), the licensee or registrant shall not authorize a planned special exposure that would cause an individual to receive a dose from all planned special exposures and all doses in excess of the limits to exceed:

(A) the numerical values of any of the dose limits in K.A.R. 28-35-212a in any year; or

(B) five times the annual dose limits in K.A.R. 28-35-212a during the individual's lifetime.

(6) The licensee or registrant shall maintain records of the conduct of a planned special exposure in accordance with K.A.R. 28-35-227g and shall submit a written report in accordance with K.A.R. 28-35-230c.

(7) The licensee or registrant shall record the best estimate of the dose resulting from the planned special

(continued)

exposure in the individual's record and shall inform the individual, in writing, of the dose within 30 days from the date of the planned special exposure. The dose from planned special exposures shall not be considered in controlling future occupational dose of the individual pursuant to K.A.R. 28-35-212a but shall be included in evaluations required by K.A.R. 28-35-212f(b)(4) and (5). (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-212g. Respiratory protection and controls to restrict internal exposure in restricted areas.** (a) Use of process or other engineering controls. The licensee or registrant shall use, to the extent practicable, process or other engineering controls, such as containment or ventilation, to control the concentrations of radioactive material in air.

(b) Use of other controls. When it is not practicable to apply process or other engineering controls to control the concentrations of radioactive material in air to values below those that define an airborne radioactivity area, the licensee or registrant shall, consistent with maintaining the total effective dose equivalent ALARA, increase monitoring and limit intakes by one or more of the following means:

- (1) control of access;
- (2) limitation of exposure times;
- (3) use of respiratory protection equipment; or
- (4) other controls.

(c) Use of individual respiratory protection equipment.

(1) If the licensee or registrant uses respiratory protection equipment to limit intakes pursuant to K.A.R. 28-35-212g(b), the following conditions shall apply.

(A) Except as provided in K.A.R. 28-35-212g(c)(1)(B), the licensee or registrant shall use only respiratory protection equipment that is tested and certified or had certification extended by the national institute for occupational safety and health and the mine safety and health administration (NIOSH/MSHA).

(B) If the licensee or registrant wishes to use equipment that has not been tested or certified by the NIOSH/MSHA or has not had certification extended by the NIOSH/MSHA, or for which there is no schedule for testing extended by the NIOSH/MSHA, or for which there is no schedule for testing or certification, the licensee or registrant shall submit an application for authorized use of that equipment, including a demonstration by testing, or a demonstration on the basis of reliable test information, that the material and performance characteristics of the equipment are capable of providing the proposed degree of protection under anticipated conditions of use.

(C) The licensee or registrant shall implement and maintain a respiratory protection program that includes:

- (i) air sampling sufficient to identify the potential hazard, permit proper equipment selection, and estimate exposures;
- (ii) surveys and bioassays, as appropriate, to evaluate actual intakes;
- (iii) testing of respirators for operability immediately prior to each use;

(iv) written procedures regarding selection, fitting, issuance, maintenance, and testing of respirators, including testing for operability immediately prior to each use; supervision and training of personnel; monitoring, including air sampling and bioassays; and recordkeeping; and

(v) determination by a physician prior to initial fitting of respirators, and at least every 12 months thereafter, that the individual user is physically able to use the respiratory protection equipment.

(D) The licensee or registrant shall issue a written policy statement on respirator usage covering:

- (i) the use of process or other engineering controls, instead of respirators;
- (ii) routine, nonroutine, and emergency use of respirators; and
- (iii) length of periods of respirator use and relief from respirator use.

(E) The licensee or registrant shall advise each respirator user that the user may leave the area at any time for relief from respirator use in the event of equipment malfunction, physical or psychological distress, procedural or communication failure, significant deterioration of operating conditions, or any other conditions that might require such relief; and

(F) the licensee or registrant shall use respiratory protection equipment within the equipment manufacturer's expressed limitations for type and mode of use and shall provide proper visual, communication, and other special capabilities, such as adequate skin protection, when needed.

(2) When estimating exposure of individuals to airborne radioactive materials, the licensee or registrant may make allowance for respiratory protection equipment used to limit intakes pursuant to K.A.R. 28-35-212g(b), provided that the following conditions, in addition to those in K.A.R. 28-35-212g(c)(1), are satisfied.

(A) (i) The licensee or registrant shall select respiratory protection equipment that provides a protection factor, specified in appendix A protection factor for registrant published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994, greater than the multiple by which peak concentrations of airborne radioactive materials in the working area are expected to exceed the values specified in appendix B, table I, column 3 published in "Kansas Department of Health and Environment Appendixes to Part 4 Standards for Protection Against Radiation," effective April, 1994. However, if the selection of respiratory protection equipment with a protection factor greater than the peak concentration is inconsistent with the goal specified in K.A.R. 28-35-212g(b) of keeping the total effective dose equivalent ALARA, the licensee or registrant may select respiratory protection equipment with a lower protection factor provided that such a selection would result in a total effective dose equivalent that is ALARA.

(ii) The concentration of radioactive material in the air that is inhaled when respirators are worn may be initially estimated by dividing the average concentration in air, during each period of uninterrupted use, by the protection factor. If the exposure is later found to be greater



than initially estimated, the corrected value shall be used; if the exposure is later found to be less than initially estimated, the corrected value may be used.

(B) The licensee or registrant shall obtain authorization from the department before assigning respiratory protection factors in excess of those specified in K.A.R. 28-35-232a appendix A. The department may authorize a licensee or registrant to use higher protection factors on receipt of an application that:

(i) describes the situation for which a need exists for higher protection factors; and

(ii) demonstrates that the respiratory protection equipment provides these higher protection factors under the proposed conditions of use.

(3) In an emergency, the licensee or registrant shall use as emergency equipment only respiratory protection equipment that has been specifically certified or had certification extended for emergency use by the NIOSH/MSHA.

(4) The licensee or registrant shall notify the department in writing at least 30 days before the date that respiratory protection equipment is first used pursuant to either K.A.R. 28-35-212g(1) or (2). (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-213a. Occupational dose limits for minors.** The annual occupational dose limit for a minor shall be 10 percent of the annual occupational dose limits specified for an adult worker in K.A.R. 28-35-212a. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-213b. Dose to an embryo/fetus.** (a) The licensee or registrant shall ensure that the dose to an embryo/fetus during the entire pregnancy, due to occupational exposure of a declared pregnant woman, does not exceed 5 mSv (0.5 rem).

(b) The licensee or registrant shall make efforts to avoid substantial variation above a uniform monthly exposure rate to a declared pregnant woman so as to satisfy the limit in K.A.R. 28-35-213b(a).

(c) The dose to an embryo/fetus shall be taken as the sum of:

(1) the deep dose equivalent to the declared pregnant woman; and

(2) the dose to the embryo/fetus for radionuclides in the embryo/fetus and radionuclides in the declared pregnant woman.

(d) If by the time the woman declares pregnancy to the licensee or registrant, the dose to the embryo/fetus has exceeded 4.5 mSv (0.45 rem), the licensee or registrant shall be deemed to be in compliance with K.A.R. 28-35-213b(a) if the additional dose to the embryo/fetus does not exceed 0.50 mSv (0.05 rem) during the remainder of the pregnancy. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-214a. Dose limits for individual members of the public.** Each licensee or registrant shall conduct operations so that:

(1) the total effective dose equivalent to individual members of the public from the licensed or registered

operation does not exceed 1 mSv (0.1 rem) in a year, exclusive of the dose contribution from the licensee's or registrant's disposal of radioactive material into sanitary sewerage in accordance with K.A.R. 28-35-224a; and

(2) the dose in any unrestricted area from external sources does not exceed 0.02 mSv (0.002 rem) in any one hour.

(b) If the licensee or registrant permits members of the public to have access to controlled areas, the limits for members of the public shall continue to apply to those individuals.

(c) A licensee, registrant, or an applicant for a license or registration may apply for prior department authorization to operate up to an annual dose limit for an individual member of the public of 5 mSv (0.5 rem). This application shall include the following information:

(1) demonstration of the need for and the expected duration of operations in excess of the limit in K.A.R. 28-35-214a(a)(1) or (2);

(2) the licensee's or registrant's program to assess and control dose within the 5 mSv (0.5 rem) annual limit; and

(3) the procedures to be followed to maintain the dose ALARA. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993, amended Oct. 17, 1994.)

**28-35-214b. Compliance with dose limits for individual members of the public.** (a) The licensee or registrant shall make or cause to be made surveys of radiation levels in unrestricted and controlled areas and radioactive materials in effluents released to unrestricted and controlled areas to demonstrate compliance with the dose limits for individual members of the public in K.A.R. 28-35-214a.

(b) A licensee or registrant shall show compliance with the annual dose limit in K.A.R. 28-35-214a by:

(1) demonstrating by measurement or calculation that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed or registered operation does not exceed the annual dose limit; or

(2) demonstrating that:

(A) the annual average concentrations of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area do not exceed the values specified in appendix B, table II published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994; and

(B) if an individual were continually present in an unrestricted area, the dose from external sources would not exceed 0.02 mSv (0.002 rem) in an hour and 0.50 mSv (0.05 rem) in a year.

(c) Upon approval from the department, the licensee or registrant may adjust the effluent concentration values in appendix B, table II published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994, for members of the public, to take into account the actual physical and chemical characteristics of

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the effluents, including aerosol size distribution, solubility, density, radioactive decay equilibrium, and chemical form. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-215a.** (Authorized by and implementing K.S.A. 1992 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; revoked Oct. 17, 1994.)

**28-35-217a. Conditions requiring individual monitoring of external and internal occupational dose.**

(a) Each licensee or registrant shall monitor exposures from sources of radiation at levels sufficient to demonstrate compliance with the occupational dose limits of these regulations. At a minimum, each licensee or registrant shall monitor occupational exposure to radiation and shall supply and require the use of individual monitoring devices by:

(1) any adult likely to receive, in one year from sources external to the body, a dose in excess of 10 percent of the limits in K.A.R. 28-35-212a;

(2) any minor or declared pregnant woman likely to receive, in one year from sources external to the body, a dose in excess of 10 percent of any of the applicable limits in K.A.R. 28-35-213a or K.A.R. 28-35-213b; and

(3) any individual entering a high or very high radiation area.

(b) Except as noted in this regulation, each personnel dosimeter that requires processing to determine the radiation dose and is utilized by the licensee or registrant to comply with this regulation, with other applicable parts of these regulations, or with conditions specified in a license or a certificate of registration, shall be processed and evaluated by a dosimetry processor currently listed in the "national voluntary laboratory accreditation program 1992 directory" (NIST Special Publication 810, published April 1992) of the national institute of standards and technology, and approved in this accreditation process for the type of radiation or radiations that most closely approximate the type of radiation or radiations for which the individual wearing the dosimeter is monitored.

(c) The requirements of this regulation shall not apply to personnel dosimeters used to measure the dose to hands and forearms or feet and ankles.

(d) To determine compliance with K.A.R. 28-35-212d, each licensee or registrant shall monitor the occupational intake of radioactive material by and assess the committed effective dose equivalent to:

(1) any adult likely to receive, in one year, an intake in excess of 10 percent of the applicable ALI in appendix B, table I, columns 1 and 2 published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994; and

(2) any minor or declared pregnant woman likely to receive, in one year, a committed effective dose equivalent in excess of 0.50 mSv (0.05 rem). (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-217b. General.** (a) Each licensee or registrant shall make, or cause to be made, surveys that:

(1) provide measurements or evaluations demonstrating compliance with these regulations; and

(2) are necessary under the circumstances to evaluate:

(A) radiation levels;

(B) concentrations or quantities of radioactive material; and

(C) the potential radiological hazards that could be present.

(b) The licensee or registrant shall ensure that instruments and equipment used for quantitative radiation measurements, are calibrated at intervals not to exceed 12 months, for the type of radiation measured.

(c) The licensee or registrant shall ensure that adequate precautions are taken to prevent a deceptive exposure of an individual monitoring device. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

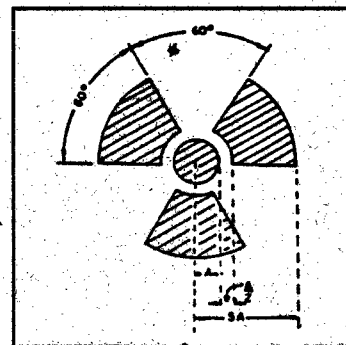
**28-35-219a. Caution signs and labels.** (a) General:

(1) Except as otherwise authorized by the department, symbols prescribed by this regulation shall use the conventional radiation caution colors (magenta or purple on yellow background). The symbol shall be the conventional three-blade design with the phrases and graphic set out below:

CAUTION (or DANGER)

RADIATION SYMBOL

1. Cross-hatch area shall be magenta, purple, or black.
2. Background shall be yellow.



(2) In addition to the contents of signs and labels prescribed in this section, any licensee or registrant may provide on or near signs and labels any additional information which may be appropriate in aiding individuals to minimize exposure to radiation.

(b) Radiation areas. Each radiation area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words:

CAUTION (or DANGER)

RADIATION AREA

(c) High radiation areas.

(1) Each high radiation area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words:

CAUTION (or DANGER)

HIGH RADIATION AREA

(2) Each registrant or licensee shall assure that the entrance or access point to a high radiation area is:

(A) equipped with a control device that, upon entry into the area, causes the level of radiation to be reduced below that at which an individual might receive a deep dose equivalent of 100 millirems (1.0 mSv) in one hour at 30 centimeters from any surface the radiation penetrates; or

(B) equipped with a control device that energizes a conspicuous visible or audible alarm signal in such a manner that the individual entering the high radiation area and the licensee or a supervisor of the activity are made aware of the entry; or

(C) required to be locked except during periods when access to the area is required, with positive control over each individual entry.

(3) The controls required by K.A.R. 28-35-219a(c)(2) and K.A.R. 28-35-219a(d)(2) shall be established in such a way that no individual will be prevented from leaving a high radiation area or a very high radiation area.

(4) If a high radiation area is established for a period of 30 days or less, direct surveillance to prevent unauthorized entry may be substituted for the controls required by paragraph (c)(2) of this regulation.

(5) Any licensee or registrant may apply to the department for approval of methods not included in paragraphs (c)(2), (4) and (6) of this regulation. The proposed alternatives shall be approved by the department if the licensee or registrant demonstrates that the alternative methods of control will prevent unauthorized entry into a high radiation area, and that the requirement of paragraph (c)(3) of this regulation is met.

(6) In place of the controls required by K.A.R. 28-35-219a for a high radiation area, the licensee or registrant may substitute continuous direct or electronic surveillance that is capable of preventing unauthorized entry.

(7) The licensee or registrant shall not be required to control each entrance or access point to a room or other area that is a high radiation area solely because of the presence of radioactive materials prepared for transport and packaged and labeled in accordance with the regulations of the U.S. department of transportation provided that:

(A) the packages do not remain in the area longer than three days; and

(B) the dose rate at one meter from the external surface of any package does not exceed 0.1 mSv (0.01 rem) per hour.

(8) The licensee or registrant shall not be required to control entrance or access to rooms or other areas in hospitals solely because of the presence of patients containing radioactive material, provided that there are personnel in attendance who are taking the necessary precautions to prevent the exposure of individuals to radiation or radioactive material in excess of the established limits in these regulations and to operate within the ALARA provisions of the licensee's or registrant's radiation protection program.

(9) The registrant shall not be required to control entrance or access to rooms or other areas containing sources of radiation capable of producing a high radiation area as described in K.A.R. 28-35-219a if the reg-

istrant has met all the specific requirements for access and control specified in other applicable regulations, K.A.R. 28-35-274 through K.A.R. 28-35-289 for industrial radiography, K.A.R. 28-35-241 through K.A.R. 28-35-250 for x-rays in the healing arts, and K.A.R. 28-35-308 through K.A.R. 28-35-319 for particle accelerators.

(d) Very high radiation areas.

(1) Each very high radiation area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words:

GRAVE DANGER

VERY HIGH RADIATION AREA

(2) Each registrant or licensee shall institute measures to ensure that an individual is not able to gain unauthorized or inadvertent access to an area in which radiation levels could be encountered at 5 Gy (500 rad) or more in one hour at one meter from a source of radiation or any surface through which the radiation penetrates, a very high radiation area.

(A) This requirement shall not apply to rooms or areas in which diagnostic x-ray systems are the only source of radiation, or to non-self-shielded irradiators.

(B) The registrant shall not be required to control entrance or access to rooms or other areas containing sources of radiation capable of producing a very high radiation area, as described in K.A.R. 28-35-219a, if the registrant has met all the specific requirements for access and control specified in other applicable regulations K.A.R. 28-35-274 through 28-35-289 for industrial radiography, K.A.R. 28-35-241 through 28-35-250 for x-rays in the healing arts, and K.A.R. 28-35-308 through 319 for particle accelerators.

(3) Control of access to very high radiation areas; irradiators.

(A) K.A.R. 28-35-219a(d)(3) shall apply to licensees or registrants with sources of radiation in non-self-shielded irradiators. K.A.R. 28-35-219a(d)(3) shall not apply to sources of radiation that are used in teletherapy, in industrial radiography, or in completely self-shielded irradiators in which the source of radiation is both stored and operated within the same shielding radiation barrier and, in the designed configuration of the irradiator, is always physically inaccessible to any individual and cannot create a high level of radiation in an area that is accessible to any individual.

(B) Each area in which there may exist radiation levels in excess of 5 Gy (500 rad) in one hour at one meter from a source of radiation that is used to irradiate materials shall be equipped with entry control devices which:

(i) function automatically to prevent any individual from inadvertently entering a very high radiation area;

(ii) permit deliberate entry into the area only after a control device is actuated that causes the radiation level within the area, from the source of radiation, to be reduced below that at which it would be possible for an individual to receive a deep dose equivalent in excess of 1 mSv (0.1 rem) in one hour; and

(iii) prevent operation of the source of radiation if it would produce radiation levels in the area that could

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result in a deep dose equivalent to an individual in excess of 1 mSv (0.1 rem) in one hour.

(C) Additional control devices shall be provided so that, upon failure of the entry control devices to function as required by K.A.R. 28-35-219(d)(3)(B):

(i) the radiation level within the area, from the source of radiation, is reduced below that at which it would be possible for an individual to receive a deep dose equivalent in excess of 1 mSv (0.1 rem) in one hour; and

(ii) conspicuous visible and audible alarm signals are generated to make an individual attempting to enter the area aware of the hazard and at least one other authorized individual who is physically present, familiar with the activity, and prepared to render or summon assistance, aware of the failure of the entry control devices.

(D) The licensee or registrant shall provide control devices so that, upon failure or removal of physical radiation barriers other than the sealed sources shielded storage container:

(i) the radiation level from the source of radiation is reduced below that at which it would be possible for an individual to receive a deep dose equivalent in excess of 1 mSv (0.1 rem) in one hour; and

(ii) conspicuous visible and audible alarm signals are generated to make potentially affected individuals aware of the hazard and the licensee, or registrant or at least one other individual who is familiar with the activity and prepared to render or summon assistance, aware of the failure or removal of the physical barrier.

(E) When the shield for stored sealed sources is a liquid, the licensee or registrant shall provide means to monitor the integrity of the shield and to automatically signal the loss of adequate shielding.

(F) Physical radiation barriers that comprise permanent structural components, including walls, that have no credible probability of failure or removal in ordinary circumstances shall not be required to comply with K.A.R. 28-35-219a(d)(3)(D) and (E).

(G) Each area shall be equipped with devices that automatically generate conspicuous visible and audible alarm signals to alert personnel in the area before the source of radiation can be put into operation and in time for any individual in the area to operate a clearly identified control device, which shall be installed in the area and which shall prevent the source of radiation from being put into operation.

(H) Each area shall be controlled by use of any administrative procedures and devices which are necessary to ensure that the area is cleared of personnel prior to each use of the source of radiation.

(I) Each area shall be checked by a radiation measurement to ensure that, prior to the first individual's entry into the area after any use of the source of radiation, the radiation level from the source of radiation in the area is below that at which it would be possible for an individual to receive a deep dose equivalent in excess of 1 mSv (0.1 rem) in one hour.

(J) The entry control devices required in K.A.R. 28-35-219a(d)(3) shall be tested for proper functioning.

(i) Testing shall be conducted prior to initial operation with the source of radiation on any day, unless opera-

tions were continued uninterrupted from the previous day.

(ii) Testing shall be conducted prior to resuming operation of the source of radiation after any unintentional interruption.

(iii) The licensee or registrant shall submit and adhere to a schedule for periodic tests of the entry control and warning systems.

(K) The licensee or registrant shall not conduct operations, other than those necessary to place the source of radiation in safe condition or to effect repairs on controls, unless control devices are functioning properly.

(L) Entry and exit portals that are used in transporting materials to and from the irradiation area, and that are not intended for use by individuals shall be controlled by those devices and administrative procedures which are necessary to physically protect and warn against inadvertent entry by any individual through these portals. Exit portals for irradiated materials shall be equipped to detect and signal the presence of any loose radioactive material that is carried toward such an exit and automatically to prevent loose radioactive material from being carried out of the area.

(4) Licensees, registrants, or applicants for licenses or registrations for sources of radiation within the purview of K.A.R. 28-35-219a(d)(3) which will be used in a variety of positions or in locations, such as open fields or forests, that make it impracticable to comply with certain requirements of this regulation, such as those for the automatic control of radiation levels, may apply to the department for approval of alternative safety measures. There shall be alternative safety measures provided for personnel protection which are at least equivalent to those specified in K.A.R. 28-35-219a(d)(3). At least one of the alternative measures shall include an entry-preventing interlock control based on a measurement of the radiation that ensures the absence of high radiation levels before an individual can gain access to the area where such sources of radiation are used.

(e) Airborne radioactivity areas. Each airborne radioactivity area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words:

CAUTION (or DANGER)

AIRBORNE RADIOACTIVITY AREA

(f) Additional requirements.

Each area or room in which any radioactive material is used or stored in an amount exceeding 10 times the quantity of radioactive material specified in K.A.R. 28-35-234b, appendix C of these regulations shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words:

CAUTION (or DANGER)

RADIOACTIVE MATERIAL

(g) Containers.

(1) Except as otherwise provided in this subsection, each container of radioactive material shall bear a durable, clearly visible label identifying the radioactive contents.

(2) Each label required by paragraph (g)(1) of this regulation shall bear the radiation caution symbol and the words:

CAUTION (or DANGER)  
RADIOACTIVE MATERIAL

Each label shall also provide sufficient information to permit individuals handling or using the containers, or working in the vicinity of them, to take precautions to avoid or minimize exposures. As appropriate, the information may include radiation levels, kinds of material, an estimate of the activity, and the date for which activity is estimated.

(3) The labeling required under subsection (g)(1) of this regulation shall not be required:

(A) for containers that do not contain radioactive material in quantities greater than the applicable quantities listed in appendix C published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994;

(B) for containers that do not contain radioactive material in concentrations greater than the applicable concentrations listed in appendix B, table I, column 2 published in "Kansas Department of Health and Environment Appendices to Part 4: Standards for Protection Against Radiation," effective April, 1994;

(C) for containers attended by an individual who takes the precautions necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established by these regulations;

(D) for containers in transport and packaged and labeled in accordance with 49 CFR subpart E, section 172.403 and 49 CFR, subpart I, as published by the U.S. department of transportation and as in effect on Oct. 1, 1990;

(E) for containers which are accessible only to individuals authorized to handle or use them or to work in the containers' vicinity, if the contents are identified to those individuals by a readily available written record, including containers in water-filled canals, storage vaults, hot cells or similar locations; and

(F) for manufacturing and process equipment such as piping and tanks.

(4) Before disposing of an empty uncontaminated container in unrestricted areas, each licensee shall remove or deface the radioactive material label or otherwise clearly indicate that the container no longer contains radioactive material.

(h) Each radiation machine shall be labeled in a manner which cautions individuals that radiation is produced when the machine is being operated. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-220a. Exceptions from posting, labeling and color requirements.** (a) Notwithstanding the provisions of K.A.R. 28-35-219, posting of a caution sign shall not be required in an area or room containing radioactive material for periods of less than eight hours if:

(1) the material is constantly attended during those periods by an individual who shall take the precautions

necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established in K.A.R. 28-35-212a through K.A.R. 28-35-234b; and

(2) the area or room is subject to the licensee's or registrant's control.

(b) Exception to color requirements for standard radiation symbol. Notwithstanding the requirements of K.A.R. 28-35-219a, licensees or registrants shall be authorized to label sources, source holders, or device components containing sources of radiation that are subject to high temperatures, with conspicuously etched or stamped radiation caution symbols without a color requirement.

(c) Posting of a caution sign shall not be required in any room or other area in hospital that is occupied by patients, provided that:

(1) a patient being treated with a permanent implant could be released from confinement pursuant to K.A.R. 28-35-262(c)(3); or

(2) a patient being treated with a therapeutic radiopharmaceutical could be released from confinement pursuant to K.A.R. 28-35-199a(d).

(d) Posting of a caution sign shall not be required in room or area because of the presence of a sealed source, provided the radiation levels at 30 centimeters from the surface of the sealed source or housing does not exceed 0.05 mSv (0.005 rem) per hour.

(e) Posting of a caution sign shall not be required in room or area because of the presence of radiation machines used solely for diagnosis in the healing arts, dentistry, or podiatry. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-221a. Procedures for picking up, receiving and opening packages.** (a) (1) Each licensee or registrant who expects to receive a package containing quantities of radioactive material in excess of the type A quantities specified in K.A.R. 28-35-221b:

(A) if the package is to be delivered to the licensee's or registrant's facility by the carrier, shall make arrangements to receive the package when it is offered for delivery by the carrier; or

(B) if the package is to be picked up by the licensee or registrant at the carrier's terminal, shall make arrangements to receive notification from the carrier of the arrival of the package, at the time of arrival.

(2) Each licensee or registrant who picks up a package of radioactive material from a carrier's terminal shall pick up the package expeditiously upon receipt of notification from the carrier of its arrival.

(b) (1) Each licensee or registrant, upon receipt of a package of radioactive material, shall monitor the external surfaces of each package labeled with U.S. department of transportation radioactive white I, radioactive yellow II or III labels, as specified in 49 CFR 172.403 and 172.436-440 in effect January 1, 1993, for radioactive contamination caused by leakage of the radioactive contents. Each licensee or registrant shall also monitor for radiation levels on each package containing

(continued)



quantities of radioactive materials that are more than or equal to the type A quantity defined in K.A.R. 28-35-221b. Each licensee or registrant shall monitor each package known to contain radioactive materials for radioactive contamination and radiation levels if there is evidence of degradation of package integrity. The monitoring shall be performed as soon as practicable after receipt, but not later than three hours after the package is received at the licensee's facility if received during the licensee's normal working hours or three hours from the beginning of the next working day if received after normal working hours. The licensee or registrant shall immediately notify the final delivery carrier and, by telephone and telegram, mailgram, or facsimile, the department when:

(A) removable radioactive surface contamination exceeds the limits of K.A.R. 28-35-221b table V of these regulations; or

(B) external radiation levels exceed the limits of K.A.R. 28-35-221b(e) and (f).

(c) Each licensee or registrant shall establish and maintain procedures for safely opening packages in which radioactive material is received and shall assure that these procedures are followed and that due consideration is given to special instructions for the type of package being opened.

(d) Licensees or registrants transferring special form sources in vehicles owned or operated by the licensee or registrant to and from a work site shall be exempt from the contamination monitoring requirements of K.A.R. 28-35-221a, but shall not be exempt from the monitoring requirement in K.A.R. 28-35-221a for measuring radiation levels that ensures that the source is still properly lodged in its shield. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-221b. Appendix A; determination of A<sub>1</sub> and A<sub>2</sub> and B quantities.**

(a) Single radionuclides.

(1) For a single radionuclide of known identity, the values of A<sub>1</sub> and A<sub>2</sub> shall be taken from Table I if listed there. The values A<sub>1</sub> and A<sub>2</sub> in Table I shall also be applicable for the radionuclide contained in (α, n) or (γ, n) neutron sources.

(2) For any single radionuclide whose identity is known but which is not listed in Table I, the value of A<sub>1</sub> and A<sub>2</sub> shall be determined according to the following procedure:

(A) If the radionuclide emits only one type of radiation, A<sub>1</sub> shall be determined according to the following method. For radionuclides emitting different kinds of radiation, the value of A<sub>1</sub> shall be the most restrictive value of those determined for each kind of radiation. However, in either case, A<sub>1</sub> shall be no more than 1000 curies (37 TBq). If a parent nuclide decays into a shorter lived daughter with a half-life not greater than 10 days, A<sub>1</sub> shall be calculated for both the parent and the daughter, and the more limiting of the two values shall be assigned to the parent nuclide.

(i) For gamma emitters, A<sub>1</sub> shall be determined by the expression:

$$A_1 = \frac{9}{\Gamma} \text{ curies}$$

where  $\Gamma$  is the gamma-ray constant, corresponding to the dose in roentgens per curie-hour at one meter, and the number nine results from the choice of one rem per hour at a distance of three meters as the reference dose-equivalent rate.

(ii) For x-ray emitters, A<sub>1</sub> shall be determined by the atomic number of the nuclide:

for  $Z \leq 55$ , A<sub>1</sub> = 1000 Ci (37 TBq); and

for  $Z > 55$ , A<sub>1</sub> = 200 Ci (7.4 TBq)

where Z is the atomic number of the nuclide.

(iii) For beta emitters, A<sub>1</sub> shall be determined by the maximum beta energy (E<sub>max</sub>) according to Table II; and

(iv) For alpha emitters, A<sub>1</sub> shall be determined by the expression:

$$A_1 = 1000 A_3$$

where A<sub>3</sub> is the value listed in Table III;

(B) A<sub>2</sub> is the more restrictive of the following two values:

(i) The corresponding A<sub>1</sub>; and

(ii) The value A<sub>3</sub> obtained from Table III.

(3) For any single radionuclide whose identity is unknown, the value of A<sub>1</sub> shall be taken to be 2 Ci (74 GBq) and the value of A<sub>2</sub> shall be taken to be 0.002 Ci (74 MBq). However, if the atomic number of the radionuclide is known to be less than 82, the value of A<sub>1</sub> shall be taken to be 10 Ci (370 GBq) and the value of A<sub>2</sub> shall be taken to be 0.4 Ci (14.8 GBq).

(b) Mixtures of radionuclides, including radioactive decay chains.

(1) For mixed fission products, the following activity limit shall be assumed if a detailed analysis of the mixture is not carried out.

$$A_1 = 10 \text{ Ci (370 GBq)}$$

$$A_2 = 0.4 \text{ Ci (14.8 GBq)}$$

(2) A single radioactive decay chain shall be considered to be a radionuclide when the radionuclides are present in their naturally occurring proportions and no daughter nuclide has a half-life either longer than ten days or longer than that of the parent nuclide. The activity to be taken into account and the A<sub>1</sub> or A<sub>2</sub> value from table I to be applied are those corresponding to the parent nuclide of that chain. When calculating A<sub>1</sub> or A<sub>2</sub> values, radiation emitted by daughters shall be considered. However, in the case of radioactive decay chains in which any daughter nuclide has a half-life either longer than ten days or greater than that of the parent nuclide, the parent and daughter nuclides shall be considered to be mixtures of different nuclides.

(3) In the case of a mixture of different radionuclides, where the identity and activity of each radionuclide are known, the permissible activity of each radionuclide R<sub>1</sub>, R<sub>2</sub> . . . R<sub>n</sub> is such that F<sub>1</sub> + F<sub>2</sub> + . . . F<sub>n</sub> is not greater than unity, where:

$$F_1 = \frac{\text{total activity of } R_1}{A_1(R_1)}$$

$$F_2 = \frac{\text{total activity of } R_2}{A_1(R_2)}$$

$F_n = \frac{\text{total activity of } R_{2n}}{A_1(R_n)}$  and

$A_1(R_n)$

$A_1(R_1, R_2 \dots R_n)$  is the value of  $A_1$  or  $A_2$  as appropriate for the nuclide  $R_1, R_2 \dots R_n$ .

(4) When the identity of each radionuclide is known but the individual activities of some of the radionuclides are not known, the formula given in paragraph three shall be applied to establish the values of  $A_1$  or  $A_2$  as appropriate. All the radionuclides whose individual activities are not known (their total activity will, however, be known) shall be classed in a single group and the most restrictive value of  $A_1$  or  $A_2$  applicable to any one

of them shall be used as the value of  $A_1$  or  $A_2$  in the denominator of the fraction.

(5) Where the identity of each radionuclide is known but the individual activity of none of the radionuclides is known, the most restrictive value of  $A_1$  or  $A_2$  applicable to any one of the radionuclides present shall be adopted as the applicable value.

(6) When the identity of none of the nuclides is known, the value of  $A_1$  shall be taken to be 2 Ci (74 GBq) and the value of  $A_2$  shall be taken to be 0.002 Ci (74 MBq). However, if alpha emitters are known to be absent, the value of  $A_2$  shall be taken to be 0.4 Ci (14.8 GBq).

Table I  
 $A_1$  and  $A_2$  Values for Radionuclides  
(See Footnotes at end of Table)

Symbol of radionuclide	Element and atomic number	$A_1$ (Ci)	$A_2$ (Ci)	Specific Activity (Ci/g)
Ac-227	Actinium (89)	1000	0.003	$7.2 \times 10^1$
Ac-228		10	4	$2.2 \times 10^6$
Aq-105	Silver (47)	40	40	$3.1 \times 10^4$
Aq-110m		7	7	$4.7 \times 10^3$
Aq-111		100	20	$1.6 \times 10^5$
Am-241	Americium (95)	8	0.008	3.2
Am-243		8	0.008	$1.9 \times 10^{-1}$
Ar-37 (compressed or uncompressed)*	Argon (18)	1000	1000	$1.0 \times 10^5$
Ar-41 (uncompressed)*		20	20	$4.3 \times 10^7$
Ar-41 (compressed)*		1	1	$4.3 \times 10^7$
As-73	Arsenic (33)	1000	400	$2.4 \times 10^4$
As-74		20	20	$1.0 \times 10^5$
As-76		10	10	$1.6 \times 10^6$
As-77		300	20	$1.1 \times 10^6$
At-211	Astatine (85)	200	7	$2.1 \times 10^6$
Au-193	Gold (79)	200	200	$9.3 \times 10^5$
Au-196		30	30	$1.2 \times 10^5$
Au-198		40	20	$2.5 \times 10^5$
AU-199		200	25	$2.1 \times 10^5$
Ba-131	Barium (56)	40	40	$8.7 \times 10^4$
Ba-133		40	40	$4.0 \times 10^2$
Ba-140		20	20	$7.3 \times 10^4$
Be-7	Beryllium (4)	300	300	$3.5 \times 10^5$
Bi-206	Bismuth (83)	5	5	$9.9 \times 10^4$
Bi-207		10	10	$2.2 \times 10^2$
Bi-210 (RaE)		100	4	$1.2 \times 10^5$
Bi-212		6	6	$1.5 \times 10^7$
Bk-249	Berkelium (97)	1000	1	$1.8 \times 10^3$
Br-77	Bromine (35)	70	25	$7.1 \times 10^5$
Br-82		6	6	$1.1 \times 10^6$
C-11	Carbon (6)	20	20	$8.4 \times 10^8$
C-14		1000	60	4.6
Ca-45	Calcium (20)	1000	25	$1.9 \times 10^4$
Ca-47		20	20	$5.9 \times 10^5$
Cd-109	Cadmium (48)	1000	70	$2.6 \times 10^3$
Cd-115m		30	30	$2.6 \times 10^4$
Cd-115		80	20	$5.1 \times 10^5$
Ce-139	Cerium (58)	100	100	$6.5 \times 10^3$
Ce-141		300	25	$2.8 \times 10^4$
Ce-143		60	20	$6.6 \times 10^5$
Ce-144		10	7	$3.2 \times 10^3$
Cf-249	California (98)	2	0.002	3.1
Cf-250		7	0.007	$1.3 \times 10^2$

(continued)

Symbol of radionuclide	Element and atomic number	A <sub>1</sub> (Ci)	A <sub>2</sub> (Ci)	Specific Activity (Ci/g)
Cf-252		2	0.009	$6.5 \times 10^2$
Cl-36	Chlorine (17)	300	10	$3.2 \times 10^{-2}$
Cl-38		10	10	$1.3 \times 10^8$
Cm-242	Curium (96)	200	0.2	$3.3 \times 10^3$
Cm-243		9	0.009	$4.2 \times 10^1$
Cm-244		10	0.01	$8.2 \times 10^1$
Cm-245		6	0.006	$1.0 \times 10^{-1}$
Cm-246		6	0.006	$3.6 \times 10^{-1}$
Co-56	Cobalt (27)	5	5	$3.0 \times 10^4$
Co-57		90	90	$8.5 \times 10^3$
Co-58m		1000	1000	$5.9 \times 10^6$
Co-58		20	20	$3.1 \times 10^4$
Co-60		7	7	$1.1 \times 10^3$
Cr-51	Chromium (24)	600	600	$9.2 \times 10^4$
Cs-129	Cesium (55)	40	40	$7.6 \times 10^5$
Cs-131		1000	1000	$1.0 \times 10^5$
Cs-134m		1000	10	$7.4 \times 10^6$
Cs-134		10	10	$1.2 \times 10^3$
Cs-135		1000	25	$8.8 \times 10^{-4}$
Cs-136		7	7	$7.4 \times 10^4$
Cs-137		30	10	$9.8 \times 10^1$
Cu-64	Copper (29)	80	25	$3.8 \times 10^6$
Cu-67		200	25	$7.9 \times 10^5$
Dy-165	Dysprosium (66)	100	20	$8.2 \times 10^6$
Dy-166		1000	200	$2.3 \times 10^5$
Er-169	Erbium (68)	1000	25	$8.2 \times 10^4$
Er-171		50	20	$2.4 \times 10^6$
Eu-152m	Europium (63)	30	30	$2.2 \times 10^6$
Eu-152		20	10	$1.9 \times 10^2$
Eu-154		10	5	$1.5 \times 10^2$
Eu-155		400	60	$1.4 \times 10^3$
F-18	Fluorine (9)	20	20	$9.3 \times 10^7$
Fe-52	Iron (26)	5	5	$7.3 \times 10^6$
Fe-55		1000	1000	$2.2 \times 10^3$
Fe-59		10	10	$4.9 \times 10^4$
Ga-67	Gallium (31)	100	100	$6.0 \times 10^5$
Ga-68		10	20	$4.0 \times 10^7$
Ga-72		7	7	$3.1 \times 10^6$
Gd-153	Gadolinium (64)	200	100	$3.6 \times 10^3$
Gd-159		300	20	$1.1 \times 10^6$
Ge-68	Germanium (32)	20	10	$7.0 \times 10^3$
Ge-71		1000	1000	$1.6 \times 10^5$
H-3	Hydrogen (1) see T-Tritium			
Hf-181	Hafnium (72)	30	25	$1.6 \times 10^4$
Hg-197m	Mercury (80)	200	200	$6.6 \times 10^5$
Hg-197		200	200	$2.5 \times 10^5$
Hg-203		80	25	$1.4 \times 10^4$
Ho-166	Holmium (67)	30	30	$6.9 \times 10^5$
I-123	Iodine (53)	50	50	$1.9 \times 10^6$
I-125		1000	70	$1.7 \times 10^4$
I-126		40	10	$7.8 \times 10^4$
I-129		1000	2	$1.6 \times 10^{-4}$
I-131		40	10	$1.2 \times 10^5$
I-132		7	7	$1.1 \times 10^7$
I-133		30	10	$1.1 \times 10^6$
I-134		8	8	$2.7 \times 10^7$
I-135		10	10	$3.5 \times 10^6$
In-111	Indium (49)	30	25	$4.2 \times 10^5$
In-113m		60	60	$1.6 \times 10^7$
In-114m		30	20	$2.3 \times 10^4$
In-115m		100	20	$6.1 \times 10^6$
Ir-190	Iridium (77)	10	10	$6.2 \times 10^4$
Ir-192		20	10	$9.1 \times 10^3$

Symbol of radionuclide	Element and atomic number	A <sub>1</sub> (Ci)	A <sub>2</sub> (Ci)	Specific Activity (Ci/g)
Ir-194		10	10	8.5 × 10 <sup>5</sup>
K-42	Potassium (19)	10	10	6.0 × 10 <sup>6</sup>
K-43		20	10	3.3 × 10 <sup>6</sup>
Kr-85m (uncompressed)*	Krypton (36)	100	100	8.4 × 10 <sup>6</sup>
Kr-85m (compressed)*		3	3	8.4 × 10 <sup>6</sup>
Kr-85 (uncompressed)*		1000	1000	4.0 × 10 <sup>2</sup>
Kr-85 (compressed)*		5	5	4.0 × 10 <sup>2</sup>
Kr-87 (uncompressed)*		20	20	2.8 × 10 <sup>7</sup>
Kr-87 (compressed)*		0.6	0.6	2.8 × 10 <sup>7</sup>
La-140	Lanthanum (57)	30	30	5.6 × 10 <sup>5</sup>
Lu-177	Lutetium (71)	300	25	1.1 × 10 <sup>5</sup>
MFP	Mixed Fission products	10	0.4	---
Mg-28	Magnesium (12)	6	6	5.2 × 10 <sup>6</sup>
Mn-52	Manganese (25)	5	5	4.4 × 10 <sup>5</sup>
Mn-54		20	20	8.3 × 10 <sup>3</sup>
Mn-56		5	5	2.2 × 10 <sup>7</sup>
Mo-99	Molybdenum (42)	100	20	4.7 × 10 <sup>5</sup>
N-13	Nitrogen (7)	20	10	1.5 × 10 <sup>9</sup>
Na-22	Sodium (11)	8	8	6.3 × 10 <sup>3</sup>
Na-24		5	5	8.7 × 10 <sup>6</sup>
Nb-93m	Niobium (41)	1000	200	1.1 × 10 <sup>3</sup>
Nb-95		20	20	3.9 × 10 <sup>4</sup>
Nb-97		20	20	2.6 × 10 <sup>7</sup>
Nd-147	Neodymium (60)	100	20	8.0 × 10 <sup>4</sup>
Nd-149		30	20	1.1 × 10 <sup>7</sup>
Ni-59	Nickel (28)	1000	900	8.1 × 10 <sup>-2</sup>
Ni-63		1000	100	4.6 × 10 <sup>1</sup>
Ni-65		10	10	1.9 × 10 <sup>7</sup>
Np-237	Neptunium (93)	5	0.005	6.9 × 10 <sup>-4</sup>
Np-239		200	25	2.3 × 10 <sup>5</sup>
Os-185	Osmium (76)	20	20	7.3 × 10 <sup>3</sup>
Os-191		600	200	4.6 × 10 <sup>4</sup>
Os-191m		200	200	1.2 × 10 <sup>6</sup>
Os-193		100	20	5.3 × 10 <sup>5</sup>
P-32	Phosphorus (15)	30	30	2.9 × 10 <sup>5</sup>
Pa-230	Protactinium (91)	20	0.8	3.2 × 10 <sup>4</sup>
Pa-231		2	0.002	4.5 × 10 <sup>-2</sup>
Pa-233		100	100	2.1 × 10 <sup>4</sup>
Pb-201	Lead (82)	20	20	1.7 × 10 <sup>6</sup>
Pb-210		100	0.2	8.8 × 10 <sup>1</sup>
Pb-212		6	5	1.4 × 10 <sup>6</sup>
Pd-103	Palladium (46)	1000	700	7.5 × 10 <sup>4</sup>
Pd-109		100	20	2.1 × 10 <sup>6</sup>
Pm-147	Promethium (61)	1000	25	9.4 × 10 <sup>2</sup>
Pm-149		10	20	4.2 × 10 <sup>5</sup>
Po-210	Polonium (84)	200	0.2	4.5 × 10 <sup>3</sup>
Pr-142	Praseodymium (59)	10	10	1.2 × 10 <sup>4</sup>
Pr-143		300	20	6.6 × 10 <sup>4</sup>
Pt-191	Platinum (78)	100	100	2.3 × 10 <sup>5</sup>
Pt-193m		200	200	2.0 × 10 <sup>5</sup>
Pt-197m		300	20	1.2 × 10 <sup>7</sup>
Pt-197		300	20	8.8 × 10 <sup>5</sup>
Pu-238	Plutonium (94)	3	0.003	1.7 × 10 <sup>1</sup>
Pu-239		2	0.002	6.2 × 10 <sup>-2</sup>
Pu-240		2	0.002	2.3 × 10 <sup>-1</sup>
Pu-241		1000	0.1	1.1 × 10 <sup>2</sup>
Pu-242		3	0.003	3.9 × 10 <sup>-3</sup>
Ra-223	Radium (88)	50	0.2	5.0 × 10 <sup>4</sup>
Ra-224		6	0.5	1.6 × 10 <sup>5</sup>
Ra-226		10	0.05	1.0
Ra-228		10	0.05	2.3 × 10 <sup>2</sup>
Rb-81	Rubidium (37)	30	24	8.2 × 10 <sup>6</sup>

(continued)

Symbol of radionuclide	Element and atomic number	A <sub>1</sub> (Ci)	A <sub>2</sub> (Ci)	Specific Activity (Ci/g)
Rb-86		30	30	$8.1 \times 10^4$
Rb-87		Unlimited	Unlimited	$6.6 \times 10^{-8}$
Rb (natural)		Unlimited	Unlimited	$1.8 \times 10^{-8}$
Re-186	Rhenium (75)	100	20	$1.9 \times 10^5$
Re-187		Unlimited	Unlimited	$3.8 \times 10^{-8}$
Re-188		10	10	$1.0 \times 10^6$
Re (natural)		Unlimited	Unlimited	$2.4 \times 10^{-8}$
Rh-103m	Rhodium (45)	1000	1000	$3.2 \times 10^7$
Rh-105		200	25	$8.2 \times 10^5$
Rn-222	Radon (86)	10	2	$1.5 \times 10^5$
Ru-97	Ruthenium (44)	80	80	$5.5 \times 10^5$
Ru-103		30	25	$3.2 \times 10^4$
Ru-105		20	20	$6.6 \times 10^6$
Ru-106		10	7	$3.4 \times 10^9$
S-35	Sulphur (16)	1000	60	$4.3 \times 10^4$
Sb-122	Antimony (51)	30	30	$3.9 \times 10^5$
Sb-124		5	5	$1.8 \times 10^4$
Sb-125		40	25	$1.4 \times 10^9$
Sc-46	Scandium (21)	8	8	$3.4 \times 10^4$
Sc-47		200	20	$8.2 \times 10^5$
Sc-48		5	5	$1.5 \times 10^6$
Se-75	Selenium (34)	40	40	$1.4 \times 10^4$
Si-31	Silicon (14)	100	20	$3.9 \times 10^7$
Sm-147	Samarium (62)	Unlimited	Unlimited	$2.0 \times 10^{-8}$
Sm-151		1000	90	$2.6 \times 10^1$
Sm-153		300	20	$4.4 \times 10^5$
Sn-113	Tin (50)	60	60	$1.0 \times 10^4$
Sn-119m		100	100	$4.4 \times 10^9$
Sn-125		10	10	$1.1 \times 10^1$
Sr-85m	Strontium (38)	80	80	$3.2 \times 10^7$
Sr-85		30	30	$2.4 \times 10^4$
Sr-85m		50	50	$1.2 \times 10^7$
Sr-89		100	10	$2.9 \times 10^4$
Sr-90		10	0.4	$1.5 \times 10^2$
Sr-91		10	10	$3.6 \times 10^6$
Sr-92		10	10	$1.3 \times 10^7$
T (uncompressed)*	Tritium (1)	1000	1000	$9.7 \times 10^3$
T (compressed)*		1000	1000	$9.7 \times 10^3$
T (activated luminous paint)		1000	1000	$9.7 \times 10^3$
T (absorbed on solid carrier)		1000	1000	$9.7 \times 10^3$
T (tritiated water)		1000	1000	$9.7 \times 10^3$
T (other forms)		20	20	$9.7 \times 10^3$
Ta-182	Tantalum (73)	20	20	$6.2 \times 10^3$
Tb-160	Terbium (65)	20	10	$1.1 \times 10^4$
Tc-96m	Technetium (43)	1000	1000	$3.8 \times 10^7$
Tc-96		6	6	$3.2 \times 10^5$
Tc-97m		1000	200	$1.5 \times 10^4$
Tc-97		1000	400	$1.4 \times 10^{-3}$
Tc-99m		100	100	$5.2 \times 10^6$
Tc-99		1000	25	$1.7 \times 10^{-2}$
Te-125m	Tellurium (52)	1000	100	$1.8 \times 10^4$
Te-127m		300	20	$4.0 \times 10^4$
Te-127		300	20	$2.6 \times 10^6$
Te-129m		30	10	$2.5 \times 10^4$
Te-129		100	20	$2.0 \times 10^7$
Te-131m		10	10	$8.0 \times 10^5$
Te-132		7	7	$3.1 \times 10^5$
Th-227	Thorium (90)	200	0.2	$3.2 \times 10^4$
Th-228		6	0.008	$8.3 \times 10^2$
Th-230		3	0.003	$1.9 \times 10^{-2}$



Symbol of radionuclide	Element and atomic number	A <sub>1</sub> (Ci)	A <sub>2</sub> (Ci)	Specific Activity (Ci/g)
Th-231		1000	25	5.3 × 10 <sup>5</sup>
Th-232		Unlimited	Unlimited	1.1 × 10 <sup>-7</sup>
Th-234		10	10	2.3 × 10 <sup>4</sup>
Th (natural)		Unlimited	Unlimited	2.2 × 10 <sup>-7</sup>
Th (irradiated)**		---	---	---
Tl-200	Thallium (81)	20	20	5.8 × 10 <sup>5</sup>
Tl-201		200	200	2.2 × 10 <sup>5</sup>
Tl-202		40	40	5.4 × 10 <sup>4</sup>
Tl-204		300	10	4.3 × 10 <sup>2</sup>
Tm-170	Thulium (69)	300	10	6.0 × 10 <sup>3</sup>
Tm-171		1000	100	1.1 × 10 <sup>3</sup>
U-230	Uranium (92)	100	0.1	2.7 × 10 <sup>4</sup>
U-232		30	0.03	2.1 × 10 <sup>1</sup>
U-233		100	0.1	9.5 × 10 <sup>-3</sup>
U-234		100	0.1	6.2 × 10 <sup>-3</sup>
U-235		100	0.2	2.1 × 10 <sup>-6</sup>
U-236		200	0.2	6.3 × 10 <sup>-5</sup>
U-238		Unlimited	Unlimited	3.3 × 10 <sup>-7</sup>
U-(natural)		Unlimited	Unlimited	see Table IV
U-(enriched) < 20%		Unlimited	Unlimited	see Table IV
20% or greater		100	0.1	see Table IV
U-(depleted)		Unlimited	Unlimited	see Table IV
U (irradiated)***		---	---	---
V-48	Vanadium (23)	6	6	1.7 × 10 <sup>5</sup>
W-181	Tungsten (74)	200	100	5.0 × 10 <sup>3</sup>
W-185		1000	25	9.7 × 10 <sup>-3</sup>
W-187		40	20	7.0 × 10 <sup>5</sup>
Xe-127 (uncompressed)*	Xenon (54)	70	70	2.8 × 10 <sup>4</sup>
Xe-127 (compressed)*		5	5	2.8 × 10 <sup>4</sup>
Xe-131m (compressed)*		10	10	1.0 × 10 <sup>5</sup>
Xe-131m (uncompressed)*		100	100	1.0 × 10 <sup>5</sup>
Xe-133 (uncompressed)*		1000	1000	1.9 × 10 <sup>5</sup>
Xe-133 (compressed)*		5	5	1.9 × 10 <sup>5</sup>
Xe-135 (uncompressed)*		70	70	2.5 × 10 <sup>5</sup>
Xe-135 (compressed)*		2	2	2.5 × 10 <sup>5</sup>
Y-87	Yttrium (39)	20	20	4.5 × 10 <sup>1</sup>
Y-90		10	10	2.5 × 10 <sup>5</sup>
Y-91m		30	30	4.1 × 10 <sup>7</sup>
Y-91		30	30	2.5 × 10 <sup>4</sup>
Y-92		10	10	9.5 × 10 <sup>6</sup>
Y-93		10	10	3.2 × 10 <sup>6</sup>
Yb-169	Ytterbium (70)	80	80	2.3 × 10 <sup>5</sup>
Yb-175		400	25	1.8 × 10 <sup>5</sup>
Zn-65	Zinc (30)	30	30	8.0 × 10 <sup>3</sup>
Zn-69m		40	20	3.3 × 10 <sup>6</sup>
Zn-69		300	20	5.3 × 10 <sup>7</sup>
Zr-93	Zirconium (40)	1000	200	3.5 × 10 <sup>-3</sup>
Zr-95		20	20	2.1 × 10 <sup>4</sup>
Zr-97		20	20	2.0 × 10 <sup>6</sup>

\*For the purpose of Table I, compressed gas means a gas at a pressure which exceeds the ambient atmospheric pressure at the location where the containment system was closed.

\*\* The values of A<sub>1</sub> and A<sub>2</sub> must be calculated in accordance with the procedure specified in Appendix A, paragraph II 3, taking into account the activity of the fission products and of the uranium-233 in addition to that of the thorium.

\*\*\* The values of A<sub>1</sub> and A<sub>2</sub> must be calculated in accordance with the procedure specified in Appendix A, paragraph II 3, taking into account the activity of the fission products and plutonium isotopes in addition to that of the uranium.

Table II  
Relationship Between A<sub>1</sub> and E<sub>max</sub> for the Beta Emitters

E <sub>max</sub> (MeV)	A <sub>1</sub> (Ci)
< 0.5	1000
0.5 - < 1.0	300

(continued)

1.0 - < 1.5	100
1.5 - < 2.0	30
≥ 2.0	10

**Table III**  
Relationship Between  $A_1$  and the Atomic Number of the Radionuclide

Atomic Number	Half-life less than 1000 days	$A_3$ Half-life 1000 days to $10^6$ years	Half-life greater than $10^6$ years
1 to 81	3 Ci	0.05 Ci	3 Ci
82 and above	0.002 Ci	0.002 Ci	3 Ci

**Table IV**  
Activity-Mass Relationships for Uranium/Thorium  
Thorium and Uranium Enrichment\*  
wt % U-235 present

wt % U-235 present	Specific Activity	
	Ci/g	g/Ci
0.45	$5.0 \times 10^{-7}$	$2.0 \times 10^6$
0.72 (natural)	$7.06 \times 10^{-7}$	$1.42 \times 10^6$
1.0	$7.6 \times 10^{-7}$	$1.3 \times 10^6$
1.5	$1.0 \times 10^{-6}$	$1.0 \times 10^6$
5.0	$2.7 \times 10^{-6}$	$3.7 \times 10^5$
10.0	$4.8 \times 10^{-6}$	$2.1 \times 10^5$
20.0	$1.0 \times 10^{-5}$	$1.0 \times 10^5$
35.0	$2.0 \times 10^{-5}$	$5.0 \times 10^4$
50.0	$2.5 \times 10^{-5}$	$4.0 \times 10^4$
90.0	$5.8 \times 10^{-5}$	$1.7 \times 10^4$
93.0	$7.0 \times 10^{-5}$	$1.4 \times 10^4$
95.0	$9.1 \times 10^{-5}$	$1.1 \times 10^4$
Natural Thorium	$2.2 \times 10^{-7}$	$4.6 \times 10^6$

\* The figures for uranium include representative values for the activity of the uranium-234 which is concentrated during the enrichment process. The activity for thorium includes the equilibrium concentration of thorium-228.

(c) Type B quantity shall mean a quantity of radioactive materials greater than a type A quantity.

(d) The level of removable contamination on the external surfaces of each package shall, when averaged over the surface wiped, not exceed the limits given in table V below at any time during transport. The level of removable radioactive contamination shall be determined by wiping an area of 300 square centimeters of the surface concerned with an absorbent material, using

moderate pressure, and measuring the activity on the wiping material. Sufficient measurements shall be taken in the most appropriate locations to yield a representative assessment of the removable contamination levels. Only in the case of packages transported as exclusive use shipment by rail or highway, may the removable radioactive contamination exceed the levels prescribed in table V. In this case, the levels shall not exceed 10 times the levels prescribed in table V.

**Table V**  
Removable External Radioactive Contamination Wipe Limits

Contaminant	Maximum Permissible Limits	
	uCi/cm <sup>2</sup>	dpm/cm <sup>2</sup>
Beta-gamma emitting radionuclides; all radionuclides with half-lives less than ten days; natural uranium; natural thorium; uranium-235; uranium-238; thorium-232; thorium-228 and thorium-230 when contained in ores or physical concentrates .....	$10^{-5}$	22
All other alpha emitting radionuclides .....	$10^{-6}$	2.2

(e) External radiation levels around the package and around the vehicle, if applicable, shall not exceed 200 millirems per hour (2 mSv/hr) at any point on the external surface of the package at any time during transportation. The transport index shall not exceed 10.

(f) For a package transported in exclusive use by rail, highway or water, radiation levels external to the package may exceed the limits specified in K.A.R. 28-35-221b(d) but shall not exceed any of the following:

(1) 200 millirems per hour (2 mSv/hr) on the accessible external surface of the package unless the following conditions are met, in which case the limit shall be 1000 millirem per hour (10 mSv/hr):

- (A) The shipment is made in a closed transport vehicle;
- (B) provisions are made to secure the package so that its position within the vehicle remains fixed during transportation; and

(C) there are no loading or unloading operations between the beginning and end of the transportation;

(2) 200 millirems per hour (2 mSv/hr) at any point on the outer surface of the vehicle, including the upper and lower surfaces, or, in the case of a flat-bed style vehicle, with a personnel barrier, at any point on the vertical planes projected from the outer edges of the vehicle, on the upper surface of the load, and on the lower external surface of the vehicle;

(3) 10 millirems per hour (0.1 mSv/hr) at any point 2 meters from the vertical planes represented by the outer lateral surfaces of the vehicle, or, in the case of a flat-bed style vehicle, at any point 2 meters from the vertical planes projected from the outer edges of the vehicle; and

(4) 2 millirems per hour (0.02 mSv/hr) in any normally occupied positions of the vehicle, except that this provisions shall not apply to private motor carriers when persons occupying these positions are provided with special health supervision personnel radiation exposure monitoring devices, and training in accordance with K.A.R. 28-35-333. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-222a. Storage and control of sources of radiation.** (a) Each licensee or registrant shall secure from unauthorized removal or access licensed or registered sources of radiation that are stored in controlled or unrestricted areas.

(b) Each licensee or registrant shall control and maintain constant surveillance of licensed or registered radioactive material that is in a controlled or unrestricted area and that is not in storage or in a patient.

(c) Each registrant shall maintain control of radiation machines that are in a controlled or unrestricted area and that are not in storage. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-223a. Waste disposal; general requirements.** (a) A licensee shall not dispose of any radioactive material except:

(1) to transfer the material to an authorized recipient as provided in K.A.R. 28-35-190; or

(2) pursuant to K.A.R. 28-35-214b, 28-35-223a(c)(1), or 28-35-224a; or

(3) by decay in storage.

(b) A person shall be specifically licensed or registered to receive waste containing licensed or registered material from other persons for:

(1) treatment prior to disposal;

(2) treatment or disposal by incineration;

(3) decay in storage;

(4) disposal at a land disposal facility licensed pursuant to these regulations; or

(5) storage until transferred to a storage or disposal facility authorized to receive the waste.

(c) (1) Any person may apply to the department for approval of proposed procedures to dispose of radioactive material in a manner not otherwise authorized in this part. Each applicant shall include a description of the radioactive material, including:

(A) the quantities and kinds of radioactive material;

(B) the levels of radioactivity involved; and

(C) the proposed manner and conditions of disposal.

(2) The application, when appropriate, shall also include an analysis and evaluation of pertinent information concerning:

(A) the nature of the environment, including topographical, geological, meteorological, and hydrological characteristics;

(B) usage of ground and surface waters in the general area;

(C) the nature and location of other potentially affected facilities; and

(D) procedures to be observed to minimize the risk of unexpected or hazardous exposures.

(3) An application for a license to receive radioactive material from other persons for disposal on land not owned by a state or the federal government shall not be approved by the department.

(d) (1) Any licensee may dispose of the following licensed material without regard to its radioactivity:

(A) 0.05 microcuries (1.850 kBq) or less of hydrogen-3 or carbon-14 per gram of medium used for liquid scintillation counting; and

(B) 0.05 microcuries or less of hydrogen-3 or carbon-14, per gram of animal tissue averaged over the weight of the entire animal. Tissue shall not be disposed of under this section in a manner that would permit its use either as food for humans or as animal feed.

(2) This regulation shall not relieve any licensee or registrant of the duty to maintain records showing the receipt, transfer and disposal of such radioactive material as specified in K.A.R. 28-35-227a.

(3) This regulation shall not relieve any licensee or registrant of the duty to comply with other applicable federal, state and local regulations governing any other toxic or hazardous property of these materials. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-224a. Disposal by release into sanitary sewage systems.** (a) A licensee shall not discharge radioactive material into a sanitary sewage system unless the following requirements are met:

(1) it is readily soluble or it is readily dispersible biological material, in water; and

(2) the quantity of any radioactive material released into the system by the licensee in any month shall not exceed the quantity which, if diluted by the average monthly quantity of sewage released into the sewer by the licensee, would result in an average concentration no greater than the limits specified in K.A.R. 28-35-233b, table III.

(3) If more than one radionuclide is released, the following additional conditions shall be satisfied.

(A) The licensee or registrant shall determine the fraction of the limit in table III of K.A.R. 28-35-233b appendix B represented by discharges into sanitary sewerage by dividing the actual monthly average concentration of each radionuclide released by the licensee or registrant into the sewer by the concentration of that radionuclide listed in table III of K.A.R. 28-35-233b appendix B.

(continued)

(B) The sum of the fractions for each radionuclide required by K.A.R. 28-35-224a(a)(3)(A) shall not exceed unity.

(4) The gross quantity of radioactive material, excluding hydrogen-3 and carbon-14, released into the sewage system by the licensee shall not exceed one curie (37 GBq) per year. The quantities of hydrogen-3 and carbon-14 released into the sanitary sewage system shall not exceed five curies (185 GBq) per year for hydrogen-3 and one curie (37 GBq) per year for carbon-14.

(b) A licensee shall not discharge radioactive material into an individual sewage disposal system used for the treatment of waste water serving only a single dwelling, office building, industrial plant, or institution except as specifically approved by the department pursuant to K.A.R. 28-35-214a and 28-35-223a(c).

(c) Excreta from individuals undergoing medical diagnosis or therapy with radioactive material shall be exempt from any limitations contained in this regulation. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-225a. Disposal by burial in soil.** A licensee shall not dispose of radioactive material by burial in soil except as specifically approved by the department pursuant to K.A.R. 28-35-223a (c). (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-226a. Disposal by incineration.** A licensee shall not incinerate radioactive material for the purpose of disposal or preparation for disposal, except as specifically approved by the department pursuant to K.A.R. 28-35-223a(c). (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-227a.** (Authorized by and implementing K.S.A. 1984 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; revoked Oct. 17, 1994.)

**28-35-227b. General provisions.** (a) Each licensee or registrant shall use the SI units becquerel, gray, sievert and coulomb per kilogram, or the special unit curie, rad, rem, and roentgen, including multiples and subdivisions, and shall clearly indicate the units of all quantities on records required by these regulations.

(b) Each licensee or registrant shall make a clear distinction among the quantities entered on the records required by these regulations, including total effective dose equivalent, total organ dose equivalent, shallow dose equivalent, eye dose equivalent, deep dose equivalent, or committed effective dose equivalent. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227c. Records of radiation protection programs.** (a) Each licensee or registrant shall maintain records of the radiation protection program, including:

- (1) the provisions of the program; and
- (2) audits and other reviews of program content and implementation.

(b) The licensee or registrant shall retain the records required by K.A.R. 28-35-227c(a)(1) until the department terminates each pertinent license or registration requiring the record. The licensee or registrant shall retain the records required by K.A.R. 28-35-227c(a)(2) for three years after the record is made. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227d. Records of surveys.** (a) Each licensee or registrant shall maintain records showing the results of surveys and calibrations required by K.A.R. 28-35-217a and K.A.R. 28-35-221a(b). The licensee or registrant shall retain these records for three years after the record is made.

(b) The licensee or registrant shall retain each of the following records until the department terminates each pertinent license or registration requiring the record:

(1) records of the results of surveys to determine the dose from external sources of radiation used, in the absence of or in combination with individual monitoring data, in the assessment of individual dose equivalents;

(2) records of the results of measurements and calculations used to determine individual intakes of radioactive material and used in the assessment of internal dose;

(3) records showing the results of air sampling, surveys, and bioassays required pursuant to K.A.R. 28-35-212g(c)(1)(C)(i) and (ii); and

(4) records of the results of measurements and calculations used to evaluate the release of radioactive effluents to the environment.

(c) Upon termination of the license or registration, the licensee or registrant shall permanently store records on a form approved by the department or an equivalent form, or shall make arrangements with the department for transfer of the records to the department. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227e. Records of tests for leakage or contamination of sealed sources.** A record of each test for leakage or contamination of sealed sources shall be kept in units of becquerel or microcurie and maintained for inspection by the department for five years after the record is made. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227f. Records of prior occupational dose.** (a) The licensee or registrant shall retain the records of prior occupational dose and exposure history as specified in K.A.R. 28-35-212e on a form approved by the department, or an equivalent form, until the department terminates each pertinent license requiring this record. The licensee or registrant shall retain records used in preparing this form for three years after the record is made.

(b) Upon termination of the license or registration, the licensee or registrant shall permanently store records on the department approved form or equivalent, or shall make arrangements with the department for transfer of the records to the department. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227g. Records of planned special exposures.** (a) For each use of the provisions of K.A.R. 28-

35-212f for planned special exposures, the licensee or registrant shall maintain records that describe:

- (1) the exceptional circumstances requiring the use of a planned special exposure;
- (2) the name of the management official who authorized the planned special exposure and a copy of the signed authorization;
- (3) what actions were necessary;
- (4) why the actions were necessary;
- (5) what precautions were taken to assure that doses were maintained ALARA;
- (6) what individual and collective doses were expected to result; and
- (7) the doses actually received in the planned special exposure.

(b) The licensee or registrant shall retain the records of a planned special exposure until the department terminates each pertinent license or registration requiring these records.

(c) Upon termination of the license or registration, the licensee or registrant shall permanently store records on the department approved form or equivalent, or shall make arrangements with the department for transfer of the records to the department. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227h. Records of individual monitoring results.** (a) Each licensee or registrant shall maintain records of doses received by all individuals for whom monitoring was required pursuant to K.A.R. 28-35-217b, and records of doses received during planned special exposures, accidents, and emergency conditions. Assessments of dose equivalent and records made using units in effect before January 1, 1994 need not be changed. These records shall include, when applicable:

- (1) the deep dose equivalent to the whole body, eye dose equivalent, shallow dose equivalent to the skin, and shallow dose equivalent to the extremities;
- (2) the estimated intake of radionuclides;
- (3) the committed effective dose equivalent assigned to the intake of radionuclides;
- (4) the specific information used to calculate the committed effective dose equivalent pursuant to K.A.R. 28-35-212d(c);
- (5) the total effective dose equivalent when required by K.A.R. 28-35-212b; and
- (6) the total of the deep dose equivalent and the committed dose to the organ receiving the highest total dose.

(b) The licensee or registrant shall make entries of the records specified in K.A.R. 28-35-227h(a) at intervals not to exceed one year.

(c) The licensee or registrant shall maintain the records specified in K.A.R. 28-35-227h(a) on a form approved by the department, in accordance with the instructions from the department, or in clear and legible records containing all the information required by the department-approved form.

(d) The licensee or registrant shall maintain the records of dose to an embryo/fetus with the records of dose to the declared pregnant woman. The declaration of pregnancy, including the estimated date of concep-

tion, shall also be kept on file, but may be maintained separately from the dose records.

(e) The licensee or registrant shall retain each required form or record until the department terminates each pertinent license or registration requiring the record.

(f) Upon termination of the license or registration, the licensee or registrant shall permanently store records on a form approved by the department or equivalent, or shall make arrangements with the department for transfer of the records to the department. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227i. Records of dose to individual members of the public.** (a) Each licensee or registrant shall maintain records sufficient to demonstrate compliance with the dose limit for individual members of the public.

(b) The licensee or registrant shall retain the records required by K.A.R. 28-35-227i(a) until the department terminates each pertinent license or registration requiring the record. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227j. Records of waste disposal.** (a) Each licensee or registrant shall maintain records of the disposal of licensed or registered materials made pursuant to K.A.R. 28-35-223a(c) and (d), 28-35-224a, 28-35-225a or 28-35-226a, and disposal by burial in soil, including burials authorized by these regulations before May 1, 1986.

(b) The licensee or registrant shall retain the records required by K.A.R. 28-35-227j(a) until the department terminates each pertinent license or registration requiring the record. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227k. Records of testing entry control devices for very high radiation areas.** (a) Each licensee or registrant shall maintain records of tests made pursuant to K.A.R. 28-35-219a(d)(3)(J) on entry control devices for very high radiation areas. These records shall include the date, time, and results of each test of function.

(b) The licensee or registrant shall retain the records required by K.A.R. 28-35-227k(a) for three years after the record is made. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-227l. Form of records.** (a) Each record required by these regulations shall be legible throughout the specified retention period.

(1) The record shall be the original or a reproduced copy or a microform, provided that the copy or microform is authenticated by authorized personnel and that the microform is capable of producing a clear copy throughout the required retention period.

(2) The record may be stored in electronic media with the capability for producing legible, accurate, and complete records during the required retention period.

(b) Records, including documents, letters, drawings, and specifications, shall include all pertinent information, including any stamps, initials, and signatures.

(c) The licensee shall maintain adequate safeguards against tampering with and loss of records. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

(continued)



**28-35-228a. Reports of theft or loss of sources of radiation.** (a) Each licensee or registrant shall report by telephone, telegraph or facsimile to the department the theft or loss of the following sources of radiation immediately after such occurrence becomes known to the licensee or registrant:

(1) stolen, lost, or missing licensed or registered radioactive material in an aggregate quantity equal to or greater than 1,000 times the quantity specified in K.A.R. 28-35-234b appendix C if it appears to the licensee or registrant that an exposure could result to individuals in unrestricted areas; or

(2) a stolen, lost, or missing radiation machine.

(b) The licensee or registrant shall also make a report in writing within 30 days after learning of stolen, lost or missing sources of radiation described in K.A.R. 28-35-228a(1) or (2).

(c) The licensee or registrant shall make a report in writing within 30 days after learning of stolen, lost or missing licensed or registered radioactive material in an aggregate quantity greater than 10 times the quantity specified in K.A.R. 28-35-234b appendix C that is still missing.

(d) The written report required in K.A.R. 28-35-228a(b) or (c) shall contain the following information:

(1) a description of the material involved, including the kind, quantity, chemical form, and physical form;

(2) a description of the circumstances under which the loss or theft occurred;

(3) a statement of the disposition or probable disposition of the material involved;

(4) radiation exposures to individuals, circumstances under which the exposures occurred, and the extent of possible total effective dose equivalent to persons in unrestricted areas;

(5) actions which have been taken, or will be taken, to recover the material; and

(6) procedures or measures which have been or will be adopted to prevent a recurrence of the theft or loss.

(d) After filing the written report the licensee or registrant shall also report to the department within 30 days of the date information becomes available, any substantive additional information on the theft or loss which becomes available.

(e) The licensee or registrant shall prepare any report filed with the department pursuant to K.A.R. 28-35-228a so that names of individuals who may have received exposure to radiation are stated in a separate and detachable portion of the report. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-229a. Notification of incidents.** (a) Immediate notification. Each licensee or registrant shall immediately notify the department by telephone, telegraph, mailgram or facsimile of any incident involving any source of radiation possessed by the licensee or registrant which may have caused or threatens to cause:

(1) (A) a total effective dose equivalent to any individual of 25 rems (250 mSv) or more of radiation;

(B) an eye dose equivalent to any individual of 75 rems (.75 Sv) or more of radiation; or

(C) a shallow dose equivalent to the skin or extremities or a total organ dose equivalent to any individual of 250 rad (2.5 Gy) or more of radiation; or

(2) the release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake five times the occupational ALI. This provision does not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures.

(b) Twenty-four hour notification. Each licensee or registrant shall, within 24 hours of the discovery of the event notify the department by telephone, telegraph, mailgram or facsimile of any incident involving any source of radiation possessed by the licensee or registrant which may have caused or threatens to cause:

(1) (A) a total effective dose equivalent to any individual exceeding five rems (50 mSv);

(B) an eye dose equivalent exceeding 15 Rem (0.15 Sv); or

(C) a shallow dose equivalent to the skin or to the extremities or a total organ dose equivalent exceeding 50 Rem (0.5 Sv); or

(2) the release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational ALI. This provision shall not apply to locations where personnel are not normally stationed during routine operations, such as hot-cells or process enclosures.

(c) Each report filed with the department pursuant to this regulation shall be prepared in such a manner that names of individuals who have received excessive doses are stated in a separate and detachable portion of the report.

(d) The provision of K.A.R. 28-35-229a shall not apply to doses that result from planned special exposures, provided such doses are within limits for planned special exposures and are reported pursuant to K.A.R. 28-35-230c. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-230a. Reports of overexposures and excessive levels and concentrations.** (a) In addition to any notification required by K.A.R. 28-35-229a, each licensee or registrant shall make a report in writing, within 30 days of learning of any of the following occurrences, to the department of:

(1) each exposure of an individual to radiation in excess of the applicable standards in K.A.R. 28-35-212a, K.A.R. 28-35-213a, K.A.R. 28-35-213b, K.A.R. 28-35-214a or the license;

(2) each exposure of an individual to radioactive material in excess of the applicable limits in K.A.R. 28-35-212b(a)(1), K.A.R. 28-35-212b (a)(2), K.A.R. 28-35-213a(b), K.A.R. 28-35-213b, K.A.R. 28-35-213c or in the license;

(3) each incident in which levels of radiation or concentrations of radioactive material in a restricted area exceeded any other applicable limit in the license;

(4) any incident for which notification is required by K.A.R. 28-35-229a; and

(5) each incident in which levels of radiation or concentrations of radioactive material in an unrestricted area exceeded 10 times any applicable limit set forth in K.A.R. 28-35-211a through K.A.R. 28-35-234b, or in the license whether or not involving excessive exposure of any individual.

(6) For licensees subject to the provisions of U.S. environmental protection agency's generally applicable environmental radiation standards in 40 CFR 190, levels of radiation or releases of radioactive material in excess of those standards, or of license conditions related to those standards.

(b) Each report required under this regulation shall describe the extent of exposure of individuals to radiation or to radioactive material, including:

- (1) estimates of each individual's dose;
- (2) levels of radiation and concentrations of radioactive material involved;
- (3) the cause of the exposure or excessive levels or concentrations; and
- (4) corrective steps taken or planned to assure against a recurrence.

(c) Any report filed with the department under this regulation shall include for each individual exposed the individual's name, social security number, and date of birth, and an estimate of the individual's dose. With respect to the limit for the embryo/fetus in K.A.R. 28-35-213b, the identifiers shall be those of the declared pregnant woman. The report shall be prepared so that this information is stated in a separate and detachable part of the report. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-230b. Misadministrations; reporting and recording.** (a) When a misadministration, as defined in K.A.R. 28-35-135(ii)(1) occurs the licensee shall notify the department by telephone. The licensee shall also notify the referring physician and the patient or a responsible relative or guardian, unless the referring physician of the affected patient agrees to inform the patient or believes, based on medical judgment, that telling the patient or a responsible relative or guardian would be harmful to one or the other respectively. These notifications shall be made within 24 hours after the licensee discovers the misadministration. If the patient, responsible relative or guardian or referring physician cannot be reached within 24 hours, they shall be informed as soon as practicable. The licensee shall not be required to notify the patient, responsible relative or guardian without first consulting the referring physician. However, the licensee shall not delay medical care for the patient for this reason.

(b) Within 15 days after the initial misadministration report by telephone to the department, the licensee shall provide a written report to the department, and shall furnish a copy of the report to the referring physician and the patient or the patient's responsible relative or guardian, if either was previously notified by the licensee under subsection (a) of this regulation.

- (1) The written report shall include:
  - (A) the licensee's name;

- (B) the referring physician's name;
- (C) a brief description of the event;
- (D) a brief description of the effect on the patient;
- (E) a description of the action or actions taken to prevent recurrence; and

(F) a statement as to whether the licensee informed the patient or the patient's responsible relative or guardian, and if not, the reasons for not doing so.

(2) The report shall not include the patient's name or other information that could lead to identification of the patient.

(c) Each licensee shall keep a record of each misadministration for five years. The record shall contain:

- (1) the names of all individuals involved in the event, including the physician, allied health personnel, the patient, and the patient's referring physician;
- (2) the patient's social security number or identification number, if one has been assigned; and
- (3) a brief description of the event, the effect on the patient and the action taken to prevent a recurrence.

(e) Aside from the notification requirement, nothing in this regulation shall be construed to affect any rights or duties of licensees and physicians in relation to each other, patients, or responsible relatives or guardians of patients. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-230c. Reports of planned special exposures.** The licensee or registrant shall submit a written report to the department within 30 days following any planned special exposure conducted in accordance with K.A.R. 28-35-212f, which shall inform the department that a planned special exposure was conducted, indicate the date the planned special exposure occurred and contain the information required by K.A.R. 28-35-227g. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-230d. Reports of individual monitoring.** (a) This section shall apply to each person licensed or registered by the department to:

- (1) Possess or use sources of radiation for purposes of industrial radiography pursuant to K.A.R. 28-35-181g and K.A.R. 28-35-274 through K.A.R. 28-35-289 of these regulations; or
- (2) receive radioactive waste from other persons for disposal pursuant to K.A.R. 28-35-180, and K.A.R. 28-35-223a(b)(1) of these regulations; or
- (3) possess or use at any time, for processing or manufacturing for distribution pursuant to K.A.R. 28-35-180 or K.A.R. 28-35-261 through K.A.R. 28-35-263 of these regulations, radioactive material in quantities exceeding any one of the following quantities:

Radionuclide	Activity	
	Ci	GBq
Cesium-137	1	37
Cobalt-60	1	37
Gold-198	100	3,700
Iodine-131	1	37
Iridium-192	10	370
Krypton-85	1,000	37,000

(continued)

Promethium-147	10	370
Techneium-99m	1,000	37,000

(b) The department may require as a license condition, or by rule, regulation, or order pursuant to K.A.R. 28-35-230d, reports from licensees or registrants who are licensed or registered to use radionuclides not on the table in paragraph (a)(3) of this regulation, if they are used in quantities sufficient to cause comparable radiation levels.

(c) Each licensee or registrant in a category listed in K.A.R. 28-35-230d shall submit an annual report of the results of individual monitoring carried out by the licensee or registrant for each individual for whom monitoring was required by K.A.R. 28-35-217b during that year.

(1) The licensee or registrant may include additional data for individuals for whom monitoring was provided but not required.

(2) The licensee or registrant shall use a form approved by the department or electronic media containing all the information required by the approved form.

(d) The licensee or registrant shall file the report required by K.A.R. 28-35-230d, covering the preceding year, on or before April 30 of each year. The licensee or registrant shall submit the report to the department. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-230e. Notifications and reports to individuals.** (a) When a licensee or registrant is required pursuant to K.A.R. 28-35-230a to report to the department any exposure of an individual to radiation or radioactive material, the licensee or registrant shall also notify the individual.

(b) Notice to the individual shall be transmitted at a time not later than the transmittal to the department, and shall comply with the provisions of K.A.R. 28-35-334 of these regulations. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-230f. Reports of leaking or contaminated sealed sources.** If a test for leakage or contamination pursuant to K.A.R. 28-35-216a indicates a sealed source is leaking or contaminated, a report of the test shall be filed within five days with the department describing the equipment involved, the test results and the corrective action taken. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective Oct. 17, 1994.)

**28-35-231b. Transfer for disposal and manifests.** (a) Each shipment of radioactive waste to a licensed land disposal facility shall be accompanied by a shipment manifest that contains:

(1) the name, address, and telephone number of the person generating the waste;

(2) the name, address, and telephone number or the name and U.S. environmental protection agency hazardous waste identification number of the person transporting the waste to the land disposal facility;

(3) a physical description, which is as complete as practicable, of:

(A) the waste;

(B) the waste volume;

(C) the radionuclide identity and quantity;

(D) the total radioactivity; and

(E) the principal chemical form;

(4) the identity of the solidification agent;

(5) the identity of any wastes containing more than 0.1 percent chelating agents by weight and an estimate of the weight percentage of the chelating agent;

(6) a clear identification of wastes classified as class A, class B, or class C in K.A.R. 28-35-223b, unless transferred to a waste processor who treats or repackages wastes; and

(7) the total quantity of the radionuclides H-3, C-14, Tc-99, and I-129 in the waste shipment.

(b) The manifest required in this regulation may consist of shipping papers used to meet U.S. department of transportation or U.S. environmental protection agency regulations or requirements of the receiver, if all the information required in subsection (a) of this regulation is included.

(c) Each manifest shall include a certification by the waste generator that the transported materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the U.S. department of transportation 40 CFR Parts 180-189 in effect on December 31, 1982 and the department. An authorized representative of the waste generator shall sign and date the manifest.

(d) Each licensee that transfers waste to a licensed waste processor who treats or repackages waste shall comply with the requirements of K.A.R. 28-35-231b (d)(4) through (8). Each licensee who transfers waste to a land disposal facility or who is a licensed waste collector shall:

(1) prepare all wastes so that the waste is classified according to K.A.R. 28-35-223b and meets the waste characteristics requirements in K.A.R. 28-35-223c;

(2) label each package of waste to identify whether it is class A, class B, or class C waste, in accordance with K.A.R. 28-35-223d;

(3) conduct a quality control program that assures compliance with K.A.R. 28-35-223b and 28-35-223d and includes a management evaluation of audits;

(4) prepare shipping manifests to meet the requirements of K.A.R. 28-35-231b (b) and (c);

(5) (A) forward a copy of the manifest to the intended recipient at the time of shipment; or

(B) deliver a copy to a collector at the time the waste is collected, obtaining acknowledgment of receipt in the form of a signed copy of the manifest from the collector;

(6) include one copy of the manifest with the shipment;

(7) retain a copy of the manifest with documentation of the acknowledgment of receipt as the record of transfer of licensed material required by these regulations; and

(8) conduct an investigation in accordance with K.A.R. 28-35-231b(h) for any shipment, or any part of a shipment, for which acknowledgment of receipt has not been received within the times set forth in this regulation.

(e) Each waste collector licensee who handles only prepackaged waste shall:

(1) acknowledge receipt of the waste from the generator within one week of receipt by returning a signed copy of the manifest;

(2) prepare a new manifest to reflect consolidated shipments. The new manifest shall serve as a listing or index for the detailed generator manifests, and copies of the generator manifests shall become a part of the new manifest. The waste collector may prepare a new manifest without attaching the generator manifests, if the new manifest contains for each package the information specified in K.A.R. 28-35-231b(a). The collector licensee shall certify that nothing has been done to the waste which would invalidate the generator's certification;

(3) forward a copy of the new manifest to the land disposal facility operator at the time of shipment;

(4) include the new manifest with the shipment to the disposal site;

(5) retain a copy of the manifest, documentation of acknowledgment of receipt as the record of transfer of licensed material in accordance with these regulations, and retain information from generator manifests until disposition is authorized by the department; and

(6) conduct an investigation in accordance with K.A.R. 28-35-231b(h) for any shipment, or any part of a shipment, for which acknowledgment of receipt is not received within the times set forth in this regulation.

(f) Each licensed waste processor who treats or repackages wastes shall:

(1) acknowledge receipt of the waste from the generator within one week of receipt by returning a signed copy of the manifest;

(2) prepare a new manifest that meets the requirements of K.A.R. 28-35-231b (a) and (c), and reflects that the processor is responsible for the waste;

(3) prepare all wastes so that the waste is classified according to this regulation and meets the waste characteristics requirement in 28-35-233c;

(4) label each package of waste to identify whether it is class A, class B, or class C waste, in accordance with K.A.R. 28-35-223b and 28-35-223d;

(5) conduct a quality control program that assures compliance with K.A.R. 28-35-223b and 28-35-223c and includes management evaluation of audits;

(6) forward a copy of the new manifest to the disposal site operator or waste collector at the time of shipment, or deliver the new manifest to a collector at the time the waste is collected, obtaining acknowledgment of receipt in the form of a signed copy of the manifest by the collector;

(7) include the new manifest with the shipment;

(8) retain copies of original manifests and new manifests with documentation of acknowledgment of receipt as the record of transfer of licensed material required by these regulations; and

(9) conduct an investigation in accordance with K.A.R. 28-35-231b(h) for any shipment, or part of a shipment, for which acknowledgment is not received within the times set forth in this section.

(g) The disposal facility operator shall:

(1) acknowledge receipt of the waste within one week of receipt by returning a signed copy of the manifest to the shipper. The shipper to be notified shall be the li-

ensee who last possessed the waste and transferred the waste to the operator. The returned copy of the manifest shall indicate any discrepancies between materials listed on the manifest and materials received;

(2) maintain copies of all completed manifests until the department authorizes their disposition; and

(3) notify the shipper and the department when any shipment or part of a shipment has not arrived within 60 days after the advance manifest was received.

(h) Any shipment or part of a shipment for which acknowledgment is not received within the times set forth in this regulation shall:

(1) be investigated by the shipper if the shipper has not received notification of receipt within 20 days after transfer; and

(2) be traced and reported to the department. Each licensee who conducts a trace investigation shall file a written report with the department within two weeks of completion of the investigation.

(i) Copies of manifests required by this regulation may be legible carbon copies or legible photocopies. (Authorized by and implementing K.S.A. 1993 Supp. 48-1607; effective, T-86-37, Dec. 11, 1985; effective May 1, 1986; amended Sept. 20, 1993; amended Oct. 17, 1994.)

**28-35-232a.** (Authorized by and implementing K.S.A. 1984 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; revoked Oct. 17, 1994.)

**28-35-233a.** (Authorized by and implementing K.S.A. 1992 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; revoked Oct. 17, 1994.)

**28-35-234a.** (Authorized by and implementing K.S.A. 1992 Supp. 48-1607; effective, T-85-43, Dec. 19, 1984; effective May 1, 1985; amended Sept. 20, 1993; revoked Oct. 17, 1994.)

**28-35-333. Instructions to workers.** (a) All individuals likely to receive an occupational dose:

(1) shall be kept informed of the storage, transfer, or use of radioactive material or of radiation in the restricted area;

(2) shall be instructed in the health protection problems associated with exposure to radioactive material or radiation to the individual and potential offspring, precautions or procedures to minimize exposure, and in the purposes and functions of protective devices employed;

(3) shall be instructed in, and instructed to observe, to the extent within the worker's control, the applicable provisions of these regulations and of any licenses concerning the protection of personnel from exposures to radiation or radioactive material;

(4) shall be informed of their responsibility to report promptly to the licensee or registrant any condition which has caused or may cause a violation of the act, these regulations, or a condition of a license or which has caused or may cause unnecessary exposure to radiation or radioactive material;

(5) shall be instructed in the appropriate response to warnings made in the event of any unusual occurrence or malfunction that may involve exposure to radiation or radioactive material; and

(continued)

(6) shall be informed of the radiation exposure reports which workers may request pursuant to K.A.R. 28-35-334, and any amendments to that rule and regulation.

(b) The extent of these instructions shall be commensurate with potential radiological health protection problems in the restricted area. (Authorized by K.S.A. 1993 Supp. 48-1607; implementing K.S.A. 1993 Supp. 48-1604, 48-1607, 48-1609; effective May 1, 1976; amended, T-85-43, Dec. 19, 1984; amended May 1, 1985; amended Oct. 17, 1994.)

**28-35-334. Notifications and reports to individuals.** (a) Radiation exposure data for an individual and the results of any measurements, analyses, and calculations of radioactive material deposited or retained in the body of an individual shall be reported to the individual as specified in this section. The information reported shall include data and results obtained pursuant to the requirements of these regulations, any order of the secretary or license condition, as shown in records maintained by the licensee or registrant pursuant to K.A.R. 28-35-227h of these regulations. Each notification and report shall:

- (1) Be in writing;
- (2) include appropriate identifying data such as the name of the licensee or registrant, the name of the individual, and the individual's identification number, preferably social security number;
- (3) include the individual's exposure information; and
- (4) contain the following statement:

"This report is furnished to you under the provisions of Kansas Administrative Rule and Regulation 28-35-334. You should preserve this report for further reference."

(b) Each licensee or registrant shall furnish each worker annually a written report of the worker's dose as shown in records maintained by the licensee or registrant pursuant to K.A.R. 28-35-227h(b).

(c) Each licensee or registrant shall furnish to the worker a written report of the worker's exposure to sources of radiation or radioactive material at the request of a worker formerly engaged in activities controlled by the licensee or registrant. The report shall be furnished within 30 days from the date of the request, or within

30 days after the dose of the individual has been determined by the licensee or registrant, whichever is later. The report shall cover, within the period of time specified in the request, the dose record for each year the worker was required to be monitored pursuant to 28-35-217b of these regulations. The report shall also include the period of time in which the worker's activities involved exposure to sources of radiation and shall include the dates and locations of work under the license or registration in which the worker participated during this period.

(d) When a licensee or registrant is required pursuant to K.A.R. 28-35-229a(a)(1), and (b)(1) of these regulations to report to the department any exposure of an individual to sources of radiation, the licensee or the registrant shall also provide to the individual a written report of the individual's exposure data included in the report. These reports shall be transmitted at a time not later than the transmittal to the department.

(e) At the request of a worker who is terminating employment with the licensee or registrant that involves exposure to radiation or radioactive material, or at the request of a worker who, while employed by another person, is terminating assignment to work involving radiation dose in the licensee's facility, each licensee or registrant shall provide to the worker, or the worker's designee, a written report regarding the radiation dose received by that worker from operations of the licensee or registrant during the current year. The report shall be provided at the worker's termination. The licensee or registrant may provide a written estimate of that dose if the finally determined personnel monitoring results are not available at that time. Estimated doses shall be clearly indicated as such. (Authorized by K.S.A. 1993 Supp. 48-1607; implementing K.S.A. 1993 Supp. 48-1604, 48-1607, 48-1609; effective May 1, 1976; amended, T-85-43, Dec. 19, 1984; amended May 1, 1985; amended Oct. 17, 1994.)

Robert C. Harder  
Secretary of Health  
and Environment

Doc. No. 015301

**INDEX TO ADMINISTRATIVE REGULATIONS**

This index lists in numerical order the new, amended and revoked administrative regulations and the volume and page number of the *Kansas Register* issue in which more information can be found. This cumulative index supplements the index found in the 1993 Supplement to the *Kansas Administrative Regulations*.

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**AGENCY 20: CRIME VICTIMS COMPENSATION BOARD**

Reg. No.	Action	Register
20-1-1	Amended	V. 12, p. 1487
20-2-3	New	V. 12, p. 1487
20-2-6	New	V. 12, p. 1488
20-2-7	New	V. 12, p. 1488
20-2-8	New	V. 12, p. 1488
20-2-9	New	V. 12, p. 1488

**AGENCY 22: STATE FIRE MARSHAL**

Reg. No.	Action	Register
22-1-2	Amended	V. 12, p. 444
22-1-3	New	V. 12, p. 444
22-1-4	New	V. 12, p. 444
22-1-5	New	V. 12, p. 445
22-1-6	New	V. 12, p. 445
22-2-1	Revoked	V. 12, p. 445
22-3-1	Revoked	V. 12, p. 445

22-3-2	Revoked	V. 12, p. 445
22-4-1	Revoked	V. 12, p. 445
22-5-3	Amended	V. 12, p. 445
22-6-10	Revoked	V. 12, p. 445
22-6-17	Revoked	V. 12, p. 445
22-6-18	New	V. 12, p. 976
22-7-1	Revoked	V. 12, p. 445
22-7-2	Revoked	V. 12, p. 445
22-7-3	Revoked	V. 12, p. 445
22-7-5	Revoked	V. 12, p. 445
22-7-6		
through 22-7-12	New	V. 12, p. 445-447
22-8-1	Revoked	V. 12, p. 448
22-10-3a	Revoked	V. 12, p. 448
22-10-10	Revoked	V. 12, p. 448
22-10-12	Revoked	V. 12, p. 448
22-10-13	Revoked	V. 12, p. 448
22-10-14	Revoked	V. 12, p. 448
22-10-17	Revoked	V. 12, p. 448
22-10-18	New	V. 12, p. 448
22-10-19	New	V. 12, p. 448
22-13-35	Revoked	V. 12, p. 449
22-18-3	Amended	V. 12, p. 449
22-19-1	Amended	V. 12, p. 450
22-19-2	Amended	V. 12, p. 450
22-19-3	Amended	V. 12, p. 451
22-19-4	Revoked	V. 12, p. 451
22-19-5	New	V. 12, p. 451
22-20-1	Revoked	V. 12, p. 451
22-22-1	New	V. 12, p. 451

**AGENCY 23: DEPARTMENT OF WILDLIFE AND PARKS**

Reg. No.	Action	Register
23-4-1	Revoked	V. 12, p. 1702
23-6-8	Revoked	V. 12, p. 1702
23-16-1	Revoked	V. 12, p. 1702
23-19-1	Revoked	V. 12, p. 1702

**AGENCY 25: STATE GRAIN INSPECTION DEPARTMENT**

Reg. No.	Action	Register
25-1-8	Revoked	V. 12, p. 1460, 1571
25-1-15	Amended	V. 12, p. 1460, 1571
25-1-16	Revoked	V. 12, p. 1461, 1571
25-1-17	Revoked	V. 12, p. 1461, 1571
25-4-1	Amended	V. 13, p. 1195

**AGENCY 26: DEPARTMENT ON AGING**

Reg. No.	Action	Register
26-5-5	Amended	V. 12, p. 1118
26-5-6	Amended	V. 12, p. 1118
26-8-1	Amended	V. 12, p. 1119, 1150
26-8-3	Amended	V. 12, p. 1120, 1152
26-8-4	Amended	V. 12, p. 1120, 1152
26-8-7	Amended	V. 12, p. 1120, 1152

**AGENCY 28: DEPARTMENT OF HEALTH AND ENVIRONMENT**

Reg. No.	Action	Register
28-1-2	Amended	V. 12, p. 315
28-1-18	Amended	V. 12, p. 1057
28-4-350	Amended	V. 12, p. 1042
28-4-351	Amended	V. 12, p. 1042
28-4-352	Amended	V. 12, p. 1043
28-4-353	Amended	V. 12, p. 1043
28-4-353a	New	V. 12, p. 1045
28-4-353b	New	V. 12, p. 1046
28-4-354	Amended	V. 12, p. 1047
28-4-355	Amended	V. 12, p. 1048
28-4-355a	New	V. 12, p. 1049
28-4-355b	New	V. 12, p. 1049
28-4-356	Amended	V. 12, p. 1051
28-4-357	Amended	V. 12, p. 1053
28-4-358	Amended	V. 12, p. 1054
28-4-359	Amended	V. 12, p. 1054
28-4-360	Amended	V. 12, p. 1057
28-15-11	Amended	V. 13, p. 1153
28-15-13	Amended	V. 13, p. 1155
28-15-15a	Amended	V. 13, p. 1156
28-15-19	Amended	V. 13, p. 1157
28-15-20	Amended	V. 13, p. 1157
28-15-21	New	V. 12, p. 728
28-15-22	New	V. 13, p. 1157
28-15-35	Amended	V. 12, p. 1847
28-15-36	Amended	V. 12, p. 1849
28-15-36a	New	V. 12, p. 1851
28-15-37	Amended	V. 12, p. 1852
28-16-28b		
through 28-16-28f	Amended	V. 13, p. 1050-1061
28-16-61	Amended	V. 12, p. 1209

28-16-150		
through 28-16-154	New	V. 12, p. 1210
28-17-6	Amended	V. 12, p. 1020
28-17-20	Amended	V. 12, p. 1020
28-19-7	Amended	V. 12, p. 1530
28-19-14	Amended	V. 12, p. 1852
28-19-14b	Revoked	V. 12, p. 1853
28-19-17b	Amended	V. 13, p. 151
28-19-17c	Amended	V. 13, p. 151
28-19-17f	Amended	V. 13, p. 151
28-19-17m	Amended	V. 13, p. 151
28-19-31	Amended	V. 12, p. 1458
28-19-32	Amended	V. 12, p. 1458
28-19-63	Amended	V. 12, p. 1458
28-19-78	Revoked	V. 13, p. 151
28-19-202	New	V. 12, p. 1534
28-19-210	New	V. 12, p. 1535
28-23-82	Amended	V. 12, p. 1058
28-25-1		
through 28-25-15	New	V. 12, p. 1058, 1059
28-29-6a	New	V. 13, p. 151
28-29-84	New	V. 12, p. 435, 487
28-29-85	New	V. 12, p. 436, 488
28-29-98	Amended	V. 13, p. 1016
28-29-99	Revoked	V. 13, p. 1017
28-30-2	Amended	V. 12, p. 1539
28-30-3	Amended	V. 12, p. 1540
28-30-6	Amended	V. 12, p. 730
28-31-1		
through 28-31-6	Amended	V. 13, p. 312-318
28-31-8	Amended	V. 13, p. 318
28-31-8b	Amended	V. 13, p. 319
28-31-9	Amended	V. 13, p. 319
28-31-10	Amended	V. 13, p. 320
28-31-11	Amended	V. 13, p. 320
28-31-14	Amended	V. 13, p. 320
28-34-1	Revoked	V. 12, p. 780
28-34-1a	New	V. 12, p. 780
28-34-2	Amended	V. 12, p. 781
28-34-3b	New	V. 12, p. 781
28-34-5	Revoked	V. 12, p. 782
28-34-5a	New	V. 12, p. 782
28-34-6	Revoked	V. 12, p. 782
28-34-6a	New	V. 12, p. 782
28-34-8	Revoked	V. 12, p. 783
28-34-8a	New	V. 12, p. 783
28-34-9a	Amended	V. 12, p. 784
28-34-10	Revoked	V. 12, p. 784
28-34-10a	New	V. 12, p. 784
28-34-16	Revoked	V. 12, p. 785
28-34-16a	New	V. 12, p. 785
28-34-17	Revoked	V. 12, p. 785
28-34-17a	New	V. 12, p. 785
28-34-17b	New	V. 12, p. 786
28-34-20	Revoked	V. 12, p. 787
28-34-20a	New	V. 12, p. 787
28-34-32a	Revoked	V. 12, p. 787
28-34-32b	New	V. 12, p. 787
28-34-125	Revoked	V. 12, p. 787
28-35-135	Amended	V. 12, p. 1176
28-35-143	Revoked	V. 12, p. 1176
28-35-180a	Amended	V. 12, p. 1176
28-35-211b	Revoked	V. 12, p. 1176
28-35-212a	Amended	V. 12, p. 1176
28-35-212b	New	V. 12, p. 1176
28-35-213a	Amended	V. 12, p. 1176
28-35-214a	Amended	V. 12, p. 1176
28-35-215a	Amended	V. 12, p. 1176
28-35-217a	Amended	V. 12, p. 1176
28-35-218a	Amended	V. 12, p. 1176
28-35-219a	Amended	V. 12, p. 1176
28-35-220a	Amended	V. 12, p. 1176
28-35-221a	Amended	V. 12, p. 1176
28-35-221b	New	V. 12, p. 1176
28-35-222a	Amended	V. 12, p. 1176
28-35-223a	Amended	V. 12, p. 1176
28-35-224a	Amended	V. 12, p. 1176
28-35-225a	Amended	V. 12, p. 1176
28-35-226a	Amended	V. 12, p. 1177
28-35-228a	Amended	V. 12, p. 1177
28-35-229a	Amended	V. 12, p. 1177
28-35-230a	Amended	V. 12, p. 1177
28-35-230b	New	V. 12, p. 1177
28-35-231b	Amended	V. 12, p. 1177
28-35-233a	Amended	V. 12, p. 1177
28-35-234a	Amended	V. 12, p. 1177
28-35-242	Amended	V. 12, p. 1177

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28-35-245	Revoked	V. 12, p. 1177
28-35-246	Revoked	V. 12, p. 1177
28-35-247	Amended	V. 12, p. 1177
28-35-248	Revoked	V. 12, p. 1177
28-35-249	Amended	V. 12, p. 1177
28-35-250	Revoked	V. 12, p. 1177
28-35-250a	New	V. 12, p. 1177
28-35-251	Amended	V. 12, p. 1177
28-35-253	New	V. 12, p. 1177
28-35-254	New	V. 12, p. 1177
28-35-255	New	V. 12, p. 1177
28-35-276	Amended	V. 12, p. 1177
28-35-282	Amended	V. 12, p. 1177
28-35-284	Amended	V. 12, p. 1177
28-35-285	Amended	V. 12, p. 1177
28-35-287	Amended	V. 12, p. 1177
28-35-288	Amended	V. 12, p. 1177
28-35-341	through	
28-35-363	New	V. 12, p. 1177, 1178
28-36-21	Amended	V. 12, p. 1059
28-36-30	Amended	V. 12, p. 1211
28-38-18	through	
28-38-23	Amended	V. 12, p. 437, 438
28-38-29	New	V. 12, p. 439
28-39-76	Revoked	V. 12, p. 1399
28-39-77	Revoked	V. 12, p. 1399
28-39-77a	Revoked	V. 12, p. 1400
28-39-78	Revoked	V. 12, p. 1400
28-39-79	Revoked	V. 13, p. 37
28-39-80	Revoked	V. 13, p. 37
28-39-81a	Revoked	V. 13, p. 37
28-39-81b	Revoked	V. 13, p. 37
28-39-82	through	
28-39-103	Revoked	V. 12, p. 1400
28-39-103a	Revoked	V. 12, p. 1400
28-39-104	through	
28-39-113	Revoked	V. 12, p. 1400
28-39-144	through	
28-39-162	New	V. 12, p. 1400-1416
28-39-162a	New	V. 12, p. 1417
28-39-162b	New	V. 12, p. 1422
28-39-162c	New	V. 12, p. 1424
28-39-163	New	V. 12, p. 1428
28-39-164	through	
28-39-174	New	V. 13, p. 37-42
28-39-227	through	
28-39-239	New	V. 13, p. 399-403
28-44-28	New	V. 12, p. 1541
28-44-29	New	V. 12, p. 1541
28-46-1	Amended	V. 13, p. 152
28-46-2	Amended	V. 13, p. 152
28-46-3	Amended	V. 13, p. 152
28-46-5	through	
28-46-22	Amended	V. 13, p. 152, 153
28-46-24	Amended	V. 13, p. 154
28-46-26	through	
28-46-34	Amended	V. 13, p. 154, 155
28-46-36	Amended	V. 13, p. 155
28-46-37	Revoked	V. 13, p. 354
28-46-38	Amended	V. 13, p. 354
28-46-39	Revoked	V. 13, p. 156
28-46-41	Amended	V. 13, p. 156
28-46-42	Amended	V. 13, p. 156
28-46-43	New	V. 13, p. 156
28-46-44	New	V. 13, p. 156
28-51-100	through	
28-51-104	Amended	V. 13, p. 43-45
28-51-108	Amended	V. 13, p. 45
28-51-110	Amended	V. 13, p. 45
28-51-111	Amended	V. 13, p. 46
28-51-112	Amended	V. 13, p. 46
28-59-5	Amended	V. 13, p. 1158
28-59-5a	New	V. 13, p. 1159
28-59-7	Amended	V. 13, p. 1159
28-65-1	Amended	V. 12, p. 1541
28-65-2	Amended	V. 12, p. 1542
28-65-3	Amended	V. 12, p. 1542
28-65-4	New	V. 12, p. 1542
28-66-1	through	
28-66-4	New	V. 13, p. 46-48

AGENCY 30: SOCIAL AND REHABILITATION SERVICES

Reg. No.	Action	Register
30-2-16	Amended	V. 13, p. 1159
30-4-52	Amended	V. 12, p. 1213
30-4-63	Amended	V. 12, p. 1213
30-4-64	Amended	V. 12, p. 1215
30-4-73	Amended	V. 12, p. 386
30-4-85a	Amended	V. 12, p. 1461, 1486
30-4-90	Amended	V. 13, p. 721
30-4-96	Amended	V. 13, p. 1159
30-4-111	Amended	V. 12, p. 1737, 1781
30-4-112	Amended	V. 12, p. 1216
30-4-113	Amended	V. 13, p. 1160
30-4-122a	Amended	V. 12, p. 1461, 1486
30-4-130	Amended	V. 12, p. 1217
30-5-58	Amended	V. 13, p. 723
30-5-59	Amended	V. 12, p. 392
30-5-60	Amended	V. 12, p. 393
30-5-64	Amended	V. 13, p. 730
30-5-65	Amended	V. 13, p. 730
30-5-70	Amended	V. 12, p. 394
30-5-71	Amended	V. 12, p. 1224
30-5-73	Amended	V. 12, p. 1224
30-5-81b	Amended	V. 12, p. 1225
30-5-82a	Amended	V. 13, p. 730
30-5-100	Amended	V. 12, p. 1225
30-5-105	Amended	V. 12, p. 1226
30-5-109a	Amended	V. 12, p. 1226
30-5-116	Amended	V. 13, p. 730
30-5-116a	Amended	V. 12, p. 1226
30-5-118a	Amended	V. 13, p. 731
30-5-151	Amended	V. 12, p. 266, 579
30-6-52	Amended	V. 13, p. 1160
30-6-56	Amended	V. 13, p. 734
30-6-77	Amended	V. 13, p. 1161
30-6-103	Amended	V. 12, p. 1739
30-6-106	Amended	V. 12, p. 1740, 1784
30-6-109	Amended	V. 13, p. 735
30-6-111	Amended	V. 13, p. 737
30-6-112	Amended	V. 12, p. 1230
30-6-113	Amended	V. 13, p. 1161
30-6-150	Amended	V. 12, p. 1745, 1789
30-7-100	Amended	V. 12, p. 398
30-10-1a	Amended	V. 13, p. 1163
30-10-1b	Amended	V. 13, p. 1165
30-10-1c	Amended	V. 12, p. 1748
30-10-1d	Amended	V. 12, p. 1748
30-10-2	Amended	V. 13, p. 1165
30-10-7	Amended	V. 13, p. 1166
30-10-11	Amended	V. 12, p. 1749
30-10-15a	Amended	V. 12, p. 1751
30-10-17	Amended	V. 12, p. 1753
30-10-18	Amended	V. 13, p. 1167
30-10-19	Amended	V. 12, p. 1756
30-10-23a	Amended	V. 12, p. 1756
30-10-25	Amended	V. 12, p. 1757
30-10-28	Amended	V. 12, p. 1758
30-31-7	Amended	V. 12, p. 901, 975
30-46-10	Amended	V. 12, p. 1231
30-65-1	New	V. 12, p. 1592, 1632
30-65-2	New	V. 12, p. 1593, 1633
30-65-3	New	V. 12, p. 1593, 1633

AGENCY 36: DEPARTMENT OF TRANSPORTATION

Reg. No.	Action	Register
36-27-11	Revoked	V. 13, p. 91
36-37-1	through	
36-37-6	New	V. 12, p. 309, 310
36-38-1	New	V. 12, p. 310
36-38-2	New	V. 12, p. 310
36-39-1	through	
36-39-6	New	V. 12, p. 1088-1090

AGENCY 40: KANSAS INSURANCE DEPARTMENT

Reg. No.	Action	Register
40-1-22	Amended	V. 13, p. 185
40-1-39	New	V. 12, p. 1563
40-1-41	New	V. 12, p. 1563
40-2-23	New	V. 12, p. 1564
40-3-10	Revoked	V. 12, p. 1564
40-3-32	Amended	V. 12, p. 1564
40-3-33	Amended	V. 12, p. 1565
40-3-47	Amended	V. 13, p. 185
40-3-50	New	V. 12, p. 1568
40-4-2	Amended	V. 12, p. 1568
40-5-12	New	V. 12, p. 1568

AGENCY 44: DEPARTMENT OF CORRECTIONS

Reg. No.	Action	Register
44-2-103	New	V. 12, p. 822
44-5-102	Revoked	V. 13, p. 835
44-6-124	Amended	V. 12, p. 1154
44-6-146	New	V. 12, p. 1154
44-7-104	Amended	V. 13, p. 835
44-7-116	New	V. 12, p. 1155
44-9-103	Revoked	V. 13, p. 836
44-9-104	Revoked	V. 13, p. 837
44-9-105	Amended	V. 13, p. 837
44-13-201	Amended	V. 13, p. 837
44-13-201b	Amended	V. 13, p. 838
44-13-202	Amended	V. 13, p. 838
44-13-402	Amended	V. 13, p. 839
44-13-403	Amended	V. 13, p. 839
44-13-603	Amended	V. 13, p. 841
44-14-101	Amended	V. 12, p. 1593
44-14-102	Amended	V. 12, p. 1594
44-14-201	Amended	V. 12, p. 1594
44-14-301	Amended	V. 12, p. 1594
44-14-302	Amended	V. 13, p. 841
44-14-303	Amended	V. 12, p. 1596
44-14-305	Amended	V. 12, p. 1596
44-14-305a	Revoked	V. 12, p. 1596
44-14-306	Amended	V. 12, p. 1596
44-14-307	Amended	V. 12, p. 1597
44-14-309	Amended	V. 12, p. 1597
44-14-310	Amended	V. 12, p. 1597
44-14-311	Amended	V. 12, p. 1597
44-14-314	Amended	V. 12, p. 1597
44-14-316	Amended	V. 12, p. 1597
44-14-318	New	V. 12, p. 1597

AGENCY 51: DEPARTMENT OF HUMAN RESOURCES— DIVISION OF WORKERS COMPENSATION

Reg. No.	Action	Register
51-9-7	Amended	V. 12, p. 1399

AGENCY 56: OFFICE OF THE ADJUTANT GENERAL

Reg. No.	Action	Register
56-2-1	New	V. 12, p. 1736
56-2-2	New	V. 12, p. 1736
56-3-1	through	V. 13, p. 89-91, 111-112
56-3-6	New	

AGENCY 60: BOARD OF NURSING

Reg. No.	Action	Register
60-1-101	Revoked	V. 12, p. 1205
60-1-102	Amended	V. 12, p. 348
60-1-103	Amended	V. 12, p. 348
60-3-101	Amended	V. 12, p. 348
60-3-104	Revoked	V. 13, p. 365
60-3-105	Amended	V. 13, p. 365
60-3-106	Amended	V. 13, p. 365
60-3-106a	New	V. 13, p. 365
60-3-110	Amended	V. 13, p. 1086
60-3-111	New	V. 12, p. 349
60-4-101	Amended	V. 13, p. 365
60-4-103	Amended	V. 13, p. 365
60-7-104	Amended	V. 13, p. 366
60-7-106	Amended	V. 13, p. 1086
60-7-108	New	V. 12, p. 349
60-8-101	Amended	V. 13, p. 366
60-9-105	Amended	V. 12, p. 349
60-9-107	Amended	V. 12, p. 1206
60-11-103	Amended	V. 13, p. 1086
60-11-108	Amended	V. 13, p. 1087
60-11-113	Amended	V. 13, p. 366
60-11-118	Amended	V. 12, p. 350
60-11-119	Amended	V. 12, p. 489
60-12-104	Amended	V. 12, p. 1208
60-12-105	Amended	V. 12, p. 1208
60-13-101	Amended	V. 12, p. 489
60-13-110	Amended	V. 13, p. 366

AGENCY 63: BOARD OF MORTUARY ARTS

Reg. No.	Action	Register
63-1-3	Amended	V. 12, p. 1598
63-1-4	Amended	V. 12, p. 632
63-3-10	Amended	V. 12, p. 632
63-3-11	Amended	V. 12, p. 632
63-3-19	Amended	V. 12, p. 633
63-4-1	Amended	V. 12, p. 1598

**AGENCY 65: BOARD OF EXAMINERS  
IN OPTOMETRY**

Reg. No.	Action	Register
65-4-3	Amended	V. 12, p. 630
65-4-4	Amended	V. 12, p. 630

**AGENCY 66: BOARD OF  
TECHNICAL PROFESSIONS**

Reg. No.	Action	Register
66-6-6	Amended	V. 12, p. 1926
66-6-8	Amended	V. 12, p. 1926
66-6-9	Amended	V. 12, p. 1926
66-8-2 through 66-8-5	Amended	V. 12, p. 1926, 1927
66-9-1	Amended	V. 12, p. 1927
66-9-2	Amended	V. 12, p. 1927
66-9-4	Amended	V. 12, p. 1927
66-9-5	Amended	V. 12, p. 1928
66-10-1	Amended	V. 12, p. 1928
66-10-3	Amended	V. 12, p. 1928
66-10-4	Amended	V. 12, p. 1928
66-10-9	Amended	V. 12, p. 1928
66-11-1	Amended	V. 12, p. 1929
66-11-2	Amended	V. 12, p. 1929
66-12-1	Amended	V. 12, p. 1929

**AGENCY 68: BOARD OF PHARMACY**

Reg. No.	Action	Register
68-1-1a	Amended	V. 13, p. 533
68-1-1f	Amended	V. 13, p. 534
68-7-12a	New	V. 12, p. 186
68-7-14	Amended	V. 13, p. 534
68-7-19	New	V. 12, p. 187
68-11-1	Amended	V. 13, p. 534
68-11-2	Amended	V. 13, p. 535
68-12-2	Amended	V. 12, p. 187
68-20-9	Amended	V. 13, p. 535
68-20-18	Amended	V. 12, p. 187
68-20-19	Amended	V. 12, p. 188

**AGENCY 69: BOARD OF  
COSMETOLOGY**

Reg. No.	Action	Register
69-1-4	Amended	V. 13, p. 4
69-11-1	Amended	V. 12, p. 1633
69-12-1 through 69-12-17	New	V. 12, p. 1633-1635

**AGENCY 70: BOARD OF  
VETERINARY EXAMINERS**

Reg. No.	Action	Register
70-5-1	Amended	V. 13, p. 445

**AGENCY 71: KANSAS DENTAL BOARD**

Reg. No.	Action	Register
71-1-16	New	V. 13, p. 1085
71-1-17	New	V. 13, p. 1085
71-1-18	New	V. 12, p. 1700
71-3-3	Amended	V. 13, p. 1085

**AGENCY 74: BOARD OF ACCOUNTANCY**

Reg. No.	Action	Register
74-4-8	Amended	V. 12, p. 1922
74-5-2	Amended	V. 12, p. 1039
74-5-202	Amended	V. 13, p. 1152
74-5-203	Amended	V. 13, p. 1152
74-5-405	Amended	V. 12, p. 1040
74-5-406	Amended	V. 12, p. 1040
74-6-1	Amended	V. 12, p. 1040
74-6-2	Amended	V. 12, p. 1041
74-8-2	Amended	V. 12, p. 1041
74-8-5	Amended	V. 12, p. 1041
74-11-1 through 74-11-5	Revoked	V. 12, p. 1922
74-11-6 through 74-11-14	New	V. 12, p. 1922-1926
74-12-1	Amended	V. 13, p. 1152
74-14-1	New	V. 12, p. 1041
74-14-2	New	V. 12, p. 1041

**AGENCY 75: CONSUMER CREDIT  
COMMISSIONER**

Reg. No.	Action	Register
75-6-6	Amended	V. 13, p. 276

**AGENCY 80: KANSAS PUBLIC  
EMPLOYEES RETIREMENT SYSTEM**

Reg. No.	Action	Register
80-8-1 through 80-8-7	New	V. 12, p. 980, 981

**AGENCY 81: OFFICE OF THE  
SECURITIES COMMISSIONER**

Reg. No.	Action	Register
81-3-1	Amended	V. 12, p. 788
81-3-3	Amended	V. 12, p. 790
81-3-4	New	V. 12, p. 790
81-5-3	Amended	V. 12, p. 790
81-5-8	Amended	V. 12, p. 791
81-5-9	Amended	V. 12, p. 791
81-5-10	New	V. 12, p. 791
81-5-11	New	V. 12, p. 1873
81-7-1	Amended	V. 12, p. 791
81-7-2	New	V. 12, p. 794
81-11-11	Amended	V. 12, p. 794

**AGENCY 82: STATE CORPORATION  
COMMISSION**

Reg. No.	Action	Register
82-1-228	Amended	V. 12, p. 147
82-1-232	Amended	V. 12, p. 148
82-3-107	Amended	V. 13, p. 531
82-3-138	Amended	V. 13, p. 532
82-3-200	Amended	V. 13, 532
82-3-203	Amended	V. 13, p. 532
82-3-206	Amended	V. 12, p. 1592
82-3-307	Amended	V. 12, p. 1592
82-3-401	Amended	V. 12, p. 376
82-3-401a	New	V. 12, p. 377
82-3-604	Amended	V. 13, p. 532
82-3-605	Amended	V. 13, p. 533
82-4-1	Amended	V. 13, p. 1187
82-4-3	Amended	V. 13, p. 1188
82-4-6d	Amended	V. 13, p. 1189
82-4-8a	Amended	V. 12, p. 441
82-4-20	Amended	V. 13, p. 1189
83-4-22	Amended	V. 13, p. 1190
82-4-23	Amended	V. 13, p. 1190
82-4-24a	Amended	V. 13, p. 1191
82-4-27	Amended	V. 13, p. 1191
82-4-27a	Amended	V. 13, p. 1191
82-4-27f	Amended	V. 13, p. 1192
82-4-28	Amended	V. 13, p. 1192
82-4-29	Amended	V. 12, p. 443
82-4-29a	Amended	V. 13, p. 1193
82-4-30	Amended	V. 13, p. 1193
82-4-31	Amended	V. 13, p. 1193
82-4-32	Amended	V. 13, p. 1193
82-4-33	Amended	V. 13, p. 1194
82-4-34	Revoked	V. 12, p. 443
82-4-35a	Amended	V. 13, p. 1194
82-4-37	Amended	V. 13, p. 1194
82-4-38	Revoked	V. 12, p. 443
82-4-39	Amended	V. 13, p. 1194
82-4-42	Amended	V. 13, p. 1194

**AGENCY 86: REAL ESTATE COMMISSION**

Reg. No.	Action	Register
86-1-5	Amended	V. 12, p. 1662
86-1-11	Amended	V. 12, p. 1662
86-2-8	New	V. 13, p. 1108
86-3-7	Amended	V. 12, p. 1663
86-3-22	Amended	V. 12, p. 1663
86-3-24	Revoked	V. 12, p. 980

**AGENCY 88: BOARD OF REGENTS**

Reg. No.	Action	Register
88-10-4	Amended	V. 12, p. 631
88-11-5	Amended	V. 12, p. 631
88-22-1 through 88-22-10	New	V. 12, p. 93, 94

**AGENCY 91: DEPARTMENT OF  
EDUCATION**

Reg. No.	Action	Register
91-1-30	Amended	V. 12, p. 579
91-1-30a	Amended	V. 13, p. 975
91-1-56	Amended	V. 13, p. 308
91-1-80	Amended	V. 12, p. 580
91-1-85	Amended	V. 13, p. 976
91-1-92	Amended	V. 13, p. 976
91-1-93a	Amended	V. 13, p. 977
91-1-102	Revoked	V. 13, p. 367
91-1-102a	Amended	V. 13, p. 308
91-1-104	Revoked	V. 13, p. 367
91-1-104a	Revoked	V. 13, p. 367
91-1-104b	Amended	V. 13, p. 309
91-1-104c	Amended	V. 13, p. 309
91-1-110a	Amended	V. 12, p. 582
91-1-110b	Revoked	V. 13, p. 367
91-1-110c	Amended	V. 13, p. 310
91-1-112a	Revoked	V. 13, p. 367

91-1-112b	Revoked	V. 13, p. 367
91-1-112c	Amended	V. 13, p. 310
91-1-112d	Amended	V. 13, p. 311
91-1-113a	Revoked	V. 13, p. 367
91-1-113b	Amended	V. 13, p. 311
91-12-22	Amended	V. 12, p. 1929
91-12-23	Amended	V. 12, p. 1933
91-12-24a	Amended	V. 12, p. 590
91-12-27	Amended	V. 12, p. 590
91-12-28	Amended	V. 12, p. 590
91-12-30	Amended	V. 12, p. 591
91-12-33	Amended	V. 12, p. 591
91-12-37	Amended	V. 12, p. 591
91-12-40	Amended	V. 12, p. 592
91-12-41	Amended	V. 12, p. 593
91-12-44	Amended	V. 12, p. 594
91-12-45	Amended	V. 12, p. 1934
91-12-46	Amended	V. 12, p. 1935
91-12-47	Amended	V. 12, p. 595
91-12-51	Amended	V. 12, p. 596
91-12-53	Amended	V. 12, p. 596
91-12-54	Amended	V. 12, p. 597
91-12-55	Amended	V. 12, p. 598
91-12-59	Amended	V. 12, p. 598
91-12-61	Amended	V. 12, p. 598
91-12-64	Amended	V. 12, p. 599
91-12-65	Amended	V. 12, p. 600
91-12-71	Amended	V. 12, p. 1935

**AGENCY 98: KANSAS WATER OFFICE**

Reg. No.	Action	Register
98-5-2	Amended	V. 12, p. 351
98-5-3	Amended	V. 12, p. 352
98-5-5	Amended	V. 12, p. 353

**AGENCY 99: BOARD OF AGRICULTURE—  
DIVISION OF WEIGHTS AND MEASURES**

Reg. No.	Action	Register
99-40-21 through 99-40-46	New	V. 13, p. 1013-1015

**AGENCY 100: BOARD OF HEALING ARTS**

Reg. No.	Action	Register
100-10a-1	Amended	V. 13, p. 637
100-11-1	Amended	V. 12, p. 1704
100-24-1	Amended	V. 13, p. 638
100-26-1	New	V. 13, p. 638
100-35-7	Amended	V. 13, p. 638
100-38-1	Amended	V. 12, p. 1704
100-46-3	Amended	V. 13, p. 638
100-46-5	Amended	V. 13, p. 638
100-46-6	New	V. 12, p. 679
100-47-1	Amended	V. 12, p. 679
100-49-4	Amended	V. 12, p. 1704
100-54-6	Amended	V. 12, p. 1704
100-55-6	Amended	V. 12, p. 1704
100-60-13	Amended	V. 13, p. 638

**AGENCY 102: BEHAVIORAL SCIENCES  
REGULATORY BOARD**

Reg. No.	Action	Register
102-1-13	Amended	V. 12, p. 1038
102-5-1 through 102-5-12	New	V. 12, p. 189-194
102-5-2	Amended	V. 12, p. 1038

**AGENCY 105: BOARD OF INDIGENTS'  
DEFENSE SERVICES**

Reg. No.	Action	Register
105-2-1	Amended	V. 13, p. 183
105-3-2	Amended	V. 12, p. 976, 1013
105-3-11	New	V. 13, p. 184
105-5-2	Amended	V. 13, p. 184
105-5-6	Amended	V. 12, p. 977, 1013
105-5-7	Amended	V. 12, p. 977, 1014
105-5-8	Amended	V. 12, p. 977, 1014
105-5-9	New	V. 12, p. 1014
105-9-5	New	V. 12, p. 1014
105-10-1	Revoked	V. 13, p. 184
105-10-1a	New	V. 13, p. 184
105-10-3	New	V. 13, p. 184
105-10-4	New	V. 13, p. 185
105-10-5	New	V. 13, p. 185

**AGENCY 109: BOARD OF EMERGENCY  
MEDICAL SERVICES**

Reg. No.	Action	Register
109-1-1	Amended	V. 12, p. 1873
109-2-5	Amended	V. 12, p. 1015
109-2-8	Amended	V. 12, p. 1016

(continued)

109-5-1	Amended	V. 12, p. 1018
109-9-4	Amended	V. 12, p. 1874
109-9-5	Amended	V. 12, p. 1875
109-10-2	New	V. 12, p. 1091
109-10-3	New	V. 12, p. 1875
109-10-4	New	V. 12, p. 1876
109-11-1	Amended	V. 12, p. 1876
109-11-4	Amended	V. 12, p. 1019
109-11-8	Amended	V. 12, p. 1876
109-13-1	New	V. 12, p. 1877
109-13-3	New	V. 12, p. 1877

AGENCY 110: DEPARTMENT OF COMMERCE AND HOUSING

Reg. No.	Action	Register
110-6-1 through 110-6-6	New	V. 12, p. 1294, 1295, 1489, 1490
110-6-7	New	V. 12, p. 1490
110-40-5	Amended	V. 13, p. 1132

AGENCY 111: THE KANSAS LOTTERY

Reg. No.	Action	Register
111-1-2	Amended	V. 7, p. 1190
111-1-5	Amended	V. 13, p. 1045
111-2-1	Amended	V. 7, p. 1995
111-2-2	Amended	V. 12, p. 1261
111-2-2a	Revoked	V. 9, p. 1675
111-2-6	Revoked	V. 13, p. 149
111-2-7	Revoked	V. 10, p. 1210
111-2-13	Revoked	V. 10, p. 881
111-2-14	New	V. 9, p. 30
111-2-15	Revoked	V. 10, p. 881
111-2-16	Revoked	V. 10, p. 1210
111-2-17	Revoked	V. 10, p. 1210
111-2-18	Revoked	V. 11, p. 413
111-2-19	Revoked	V. 11, p. 413
111-2-20	New	V. 11, p. 199
111-2-21	New	V. 11, p. 1471
111-2-22	New	V. 11, p. 1972
111-2-23	New	V. 12, p. 113
111-2-24	Amended	V. 12, p. 912
111-2-25	New	V. 12, p. 677
111-2-26	New	V. 12, p. 1113
111-2-27	New	V. 12, p. 1370
111-2-28	New	V. 12, p. 1844
111-2-29	New	V. 12, p. 1844
111-3-1	Amended	V. 13, p. 34
111-3-6	Amended	V. 12, p. 677
111-3-9	Revoked	V. 11, p. 1793
111-3-10 through 111-3-31	New	V. 7, p. 201-206
111-3-11	Amended	V. 13, p. 35
111-3-12	Amended	V. 10, p. 12
111-3-13	Amended	V. 11, p. 1148
111-3-14	Amended	V. 10, p. 12
111-3-16	Amended	V. 9, p. 1566
111-3-19 through 111-3-22	Amended	V. 9, p. 30
111-3-20	Amended	V. 11, p. 1148
111-3-21	Amended	V. 11, p. 1148
111-3-22	Amended	V. 11, p. 1148
111-3-23	Revoked	V. 10, p. 883
111-3-25	Amended	V. 11, p. 1149
111-3-26	Amended	V. 11, p. 1149
111-3-27	Amended	V. 11, p. 1149
111-3-29	Revoked	V. 11, p. 1149
111-3-31	Amended	V. 8, p. 209
111-3-32	Amended	V. 10, p. 883
111-3-33	New	V. 7, p. 1434
111-3-34	New	V. 13, p. 149
111-3-35	New	V. 13, p. 337
111-3-36	New	V. 13, p. 877
111-3-37	New	V. 13, p. 877
111-4-1 through 111-4-5	Revoked	V. 12, p. 113
111-4-5a	Revoked	V. 12, p. 113
111-4-6 through 111-4-15	Revoked	V. 12, p. 113
111-4-66 through 111-4-77	New	V. 7, p. 207-209
111-4-96 through 111-4-114	New	V. 7, p. 1606-1610
111-4-100	Amended	V. 13, p. 1045
111-4-101	Amended	V. 13, p. 1045
111-4-102	Amended	V. 12, p. 1114

111-4-103	Amended	V. 10, p. 1211
111-4-104	Amended	V. 13, p. 1046
111-4-105	Amended	V. 13, p. 1046
111-4-106	Amended	V. 13, p. 1046
111-4-106a	Amended	V. 11, p. 1149
111-4-107	Amended	V. 11, p. 978
111-4-108	Amended	V. 12, p. 1114
111-4-110	Amended	V. 11, p. 978
111-4-111	Amended	V. 9, p. 1366
111-4-112	Amended	V. 13, p. 1047
111-4-113	Amended	V. 9, p. 1366
111-4-114	Amended	V. 9, p. 1366
111-4-153 through 111-4-160	Revoked	V. 9, p. 1676, 1677
111-4-177 through 111-4-212	Revoked	V. 9, p. 1677, 1678
111-4-213 through 111-4-220	Revoked	V. 10, p. 1213
111-4-217	Amended	V. 9, p. 986
111-4-221 through 111-4-224	Revoked	V. 10, p. 1585
111-4-225 through 111-4-228	Revoked	V. 10, p. 1585
111-4-229 through 111-4-236	Revoked	V. 10, p. 1585, 1586
111-4-237 through 111-4-240	Revoked	V. 11, p. 413
111-4-241 through 111-4-244	Revoked	V. 12, p. 1371
111-4-245 through 111-4-248	Revoked	V. 12, p. 1371
111-4-249 through 111-4-256	Revoked	V. 12, p. 113, 114
111-4-257 through 111-4-286	Revoked	V. 11, p. 413, 414
111-4-287 through 111-4-300	New	V. 10, p. 883-886
111-4-287 through 111-4-290	Revoked	V. 12, p. 1371
111-4-291 through 111-4-300	Revoked	V. 12, p. 114
111-4-301 through 111-4-303	Amended	V. 12, p. 1115
111-4-304	Amended	V. 12, p. 1115
111-4-306	Amended	V. 12, p. 1115
111-4-308 through 111-4-320	New	V. 10, p. 1015, 1016
111-4-301	Amended	V. 12, p. 1115
111-4-303	Amended	V. 12, p. 1115
111-4-304	Amended	V. 12, p. 1115
111-4-306	Amended	V. 12, p. 1115
111-4-308 through 111-4-310	Amended	V. 12, p. 1115
111-4-311	Amended	V. 12, p. 1262
111-4-312	Amended	V. 12, p. 1262
111-4-313	Amended	V. 12, p. 1262
111-4-318 through 111-4-321	Revoked	V. 12, p. 114
111-4-322 through 111-4-331	New	V. 10, p. 1411-1413
111-4-322	Revoked	V. 12, p. 1371
111-4-328 through 111-4-335	Revoked	V. 12, p. 114
111-4-336 through 111-4-345	New	V. 10, p. 1526-1528
111-4-336 through 111-4-340	Amended	V. 12, p. 1371, 1372
111-4-341	Revoked	V. 11, p. 1473
111-4-341a	Revoked	V. 12, p. 1372
111-4-341b	Amended	V. 12, p. 1372
111-4-341c	New	V. 12, p. 1664
111-4-344	Amended	V. 12, p. 1373

111-4-346 through 111-4-361	New	V. 10, p. 1586-1589
111-4-346 through 111-4-349	Revoked	V. 12, p. 114
111-4-362 through 111-4-365	Revoked	V. 12, p. 114, 115
111-4-362	Amended	V. 11, p. 13
111-4-366 through 111-4-379	New	V. 11, p. 136-139
111-4-366 through 111-4-369	Revoked	V. 12, p. 1373
111-4-380 through 111-4-383	Revoked	V. 12, p. 1664
111-4-384 through 111-4-387	Revoked	V. 12, p. 1373
111-4-388 through 111-4-400	New	V. 11, p. 478-481
111-4-388 through 111-4-391	Revoked	V. 12, p. 1373
111-4-392	Amended	V. 12, p. 520
111-4-394 through 111-4-400	Amended	V. 12, p. 521, 522
111-4-401 through 111-4-404	Revoked	V. 12, p. 1373
111-4-405 through 111-4-413	New	V. 11, p. 756, 757
111-4-405	Amended	V. 13, p. 877
111-4-407	Amended	V. 13, p. 877
111-4-408	Amended	V. 13, p. 877
111-4-409	Amended	V. 13, p. 877
111-4-411	Amended	V. 11, p. 1474
111-4-412	Amended	V. 11, p. 1475
111-4-413	Amended	V. 11, p. 1475
111-4-414 through 111-4-428	New	V. 11, p. 981-983
111-4-414	Amended	V. 11, p. 1150
111-4-429 through 111-4-432	Revoked	V. 12, p. 1373
111-4-433 through 111-4-436	Revoked	V. 12, p. 1374
111-4-437 through 111-4-444	New	V. 11, p. 1475-1477
111-4-437	Revoked	V. 12, p. 1374
111-4-440	Revoked	V. 12, p. 1374
111-4-445 through 111-4-448	Revoked	V. 12, p. 1374
111-4-448	Revoked	V. 12, p. 1261
111-4-454 through 111-4-465	Revoked	V. 12, p. 1664, 1665
111-4-466 through 111-4-473	New	V. 12, p. 316, 317
111-4-466	New	V. 12, p. 316, 317
111-4-466 through 111-4-469	Revoked	V. 12, p. 1665
111-4-470	Amended	V. 12, p. 522
111-4-474 through 111-4-488	New	V. 12, p. 522-524
111-4-489 through 111-4-492	New	V. 12, p. 861
111-4-493 through 111-4-496	New	V. 12, p. 525
111-4-497 through 111-4-500	New	V. 12, p. 913, 914
111-4-501 through 111-4-512		V. 12, p. 1115-1118

111-4-513 through 111-4-521	New	V. 12, p. 1374, 1375
111-4-522 through 111-4-530	New	V. 12, p. 1569, 1570
111-4-531 through 111-4-534	New	V. 12, p. 1665, 1666
111-4-535 through 111-4-542	New	V. 12, p. 1844-1846
111-4-543 through 111-4-546	New	V. 13, p. 150
111-4-547 through 111-4-554	New	V. 13, p. 337-339
111-4-555 through 111-4-563	New	V. 13, p. 396-398
111-4-564 through 111-4-571	New	V. 13, p. 635-637
111-4-572 through 111-4-585	New	V. 13, p. 878-880
111-4-586 through 111-4-593	New	V. 13, p. 1047-1049
111-5-1 through 111-5-23	New	V. 7, p. 209-213
111-5-9 through 111-5-15	Amended	V. 8, p. 210, 211
111-5-11	Amended	V. 9, p. 505
111-5-12	Amended	V. 11, p. 415
111-5-17	Amended	V. 8, p. 211
111-5-18	Amended	V. 10, p. 13
111-5-19	Amended	V. 8, p. 212
111-5-21 through 111-5-33	New	V. 11, p. 415-418
111-5-22	Amended	V. 11, p. 481
111-5-23	Amended	V. 11, p. 481
111-5-24	Amended	V. 11, p. 983
111-5-25	Amended	V. 11, p. 482
111-5-27	Amended	V. 11, p. 482
111-5-28	Amended	V. 12, p. 317
111-5-34	New	V. 12, p. 318
111-5-35 through 111-5-38	New	V. 12, p. 526
111-6-1 through 111-6-15	New	V. 7, p. 213-217
111-6-1	Amended	V. 13, p. 339
111-6-3	Amended	V. 12, p. 527
111-6-4	Amended	V. 10, p. 1413
111-6-5	Amended	V. 12, p. 1262
111-6-6	Amended	V. 11, p. 1973
111-6-7	Amended	V. 11, p. 1477
111-6-7a	New	V. 12, p. 1118
111-6-8	Revoked	V. 12, p. 1263
111-6-9	Amended	V. 10, p. 1217
111-6-11	Revoked	V. 12, p. 1376
111-6-12	Amended	V. 8, p. 212
111-6-13	Amended	V. 8, p. 299
111-6-15	Amended	V. 12, p. 677
111-6-17	Revoked	V. 10, p. 1475
111-6-18	New	V. 13, p. 150
111-6-19	New	V. 13, p. 340
111-6-20	New	V. 13, p. 340
111-6-21	New	V. 13, p. 881
111-6-22	New	V. 13, p. 881
111-6-23	New	V. 13, p. 881
111-7-1 through 111-7-10	New	V. 7, p. 1192, 1193
111-7-1	Amended	V. 8, p. 212
111-7-3	Amended	V. 11, p. 1796
111-7-3a	Revoked	V. 13, p. 340
111-7-4	Amended	V. 9, p. 1367
111-7-5	Amended	V. 9, p. 986
111-7-6	Amended	V. 9, p. 987

111-7-9	Amended	V. 12, p. 1263
111-7-11	Amended	V. 10, p. 1475
111-7-12 through 111-7-32	New	V. 7, p. 1194-1196
111-7-33 through 111-7-43	New	V. 7, p. 1197, 1198
111-7-33a	New	V. 8, p. 300
111-7-44 through 111-7-54	Revoked	V. 13, p. 340
111-7-46	Amended	V. 11, p. 1152
111-7-54	Amended	V. 11, p. 1511
111-7-55 through 111-7-63	Revoked	V. 10, p. 1217
111-7-60	Amended	V. 10, p. 262
111-7-64 through 111-7-75	New	V. 11, p. 13, 14
111-7-66	Amended	V. 13, p. 1049
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111-7-76 through 111-7-78	New	V. 11, p. 1478-1480
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111-7-91 through 111-7-94	Revoked	V. 13, p. 340
111-7-98	New	V. 12, p. 914
111-7-99 through 111-7-105	New	V. 12, p. 1376, 1377
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111-8-2	New	V. 7, p. 1633
111-8-3	Amended	V. 10, p. 886
111-8-4	New	V. 7, p. 1714
111-8-4a	New	V. 7, p. 1995
111-8-5 through 111-8-13	New	V. 7, p. 1634
111-8-14	New	V. 13, p. 881
111-8-15	New	V. 13, p. 881
111-9-1 through 111-9-12	New	V. 7, p. 1714-1716
111-9-1 through 111-9-6	Revoked	V. 9, p. 1680
111-9-13 through 111-9-18	Revoked	V. 9, p. 1680
111-9-25 through 111-9-30	New	V. 9, p. 699, 700
111-9-31 through 111-9-36	New	V. 10, p. 262
111-9-37 through 111-9-48	New	V. 10, p. 1439, 1440
111-9-49 through 111-9-54	New	V. 12, p. 318, 319
111-9-55 through 111-9-60	New	V. 12, p. 1263, 1264
111-10-1 through 111-10-9	New	V. 8, p. 136-138
111-10-7	Amended	V. 8, p. 301

AGENCY 112: KANSAS RACING COMMISSION

Reg. No.	Action	Register
112-4-1	Amended	V. 12, p. 1152, 1369
112-4-24	New	V. 12, p. 1153, 1370
112-4-25	New	V. 13, p. 1088
112-5-10	New	V. 13, p. 1088
112-6-1	Amended	V. 13, p. 1088

112-6-2	Amended	V. 13, p. 1088
112-6-9	New	V. 13, p. 1089
112-6-10	New	V. 13, p. 1089
112-7-24	New	V. 13, p. 843, 1090
112-8-13	New	V. 13, p. 1090
112-9-1	New	V. 13, p. 1090
112-9-2	Amended	V. 12, p. 975, 1211
112-9-18a	Amended	V. 12, p. 355, 378
112-9-30	Amended	V. 12, p. 975, 1211
112-9-39a	Amended	V. 12, p. 356, 378
112-9-40a	Amended	V. 12, p. 356, 379
112-9-41a	Amended	V. 12, p. 358, 380
112-9-42	Amended	V. 12, p. 359, 382
112-9-43	Amended	V. 12, p. 361, 383
112-9-44	New	V. 12, p. 361, 384
112-11-21	Amended	V. 13, p. 1090
112-12-1	New	V. 12, p. 50
112-12-2 through 112-12-11	Amended	V. 12, p. 50-53
112-12-10	Amended	V. 12, p. 1816
112-12-14	New	V. 13, p. 962, 1091
112-15-2	Amended	V. 13, p. 1091
112-15-3	Amended	V. 13, p. 1091
112-15-5	Amended	V. 13, p. 1091
112-15-6	Amended	V. 13, p. 1091
112-15-15	New	V. 12, p. 1034, 1211
112-18-9	Amended	V. 13, p. 1092
112-18-11	Amended	V. 13, p. 1092
112-18-17	Amended	V. 13, p. 1092
112-18-18	Amended	V. 13, p. 1092
112-18-20	New	V. 13, p. 1093

AGENCY 115: DEPARTMENT OF WILDLIFE AND PARKS

Reg. No.	Action	Register
115-2-1	Amended	V. 13, p. 1062
115-4-1	Amended	V. 12, p. 570
115-4-3	Amended	V. 12, p. 570
115-4-5	Amended	V. 12, p. 571
115-4-6	Amended	V. 13, p. 592
115-4-7	Amended	V. 13, p. 594
115-5-1	Amended	V. 12, p. 1490
115-8-22	New	V. 13, p. 233
115-9-1	Revoked	V. 12, p. 1702
115-9-5	Amended	V. 13, p. 980
115-14-1	Amended	V. 13, p. 980
115-14-2	Amended	V. 13, p. 980
115-14-8	Amended	V. 13, p. 980
115-14-9	Amended	V. 13, p. 980
115-14-10	Amended	V. 13, p. 981
115-17-15	New	V. 12, p. 1702
115-17-16 through 115-17-20	New	V. 13, p. 234-236
115-18-4	Amended	V. 12, p. 1491
115-18-9	New	V. 12, p. 1702
115-18-10	New	V. 12, p. 1702
115-18-12	New	V. 12, p. 1491
115-18-13	New	V. 13, p. 981
115-21-3	New	V. 12, p. 1703
115-30-8	Amended	V. 12, p. 1703
115-30-10	New	V. 13, p. 595

AGENCY 116: STATE FAIR BOARD

Reg. No.	Action	Register
116-3-1	New	V. 12, p. 1175
116-3-2	New	V. 12, p. 1175
116-4-1	New	V. 13, p. 934
116-4-2	New	V. 13, p. 934

AGENCY 117: REAL ESTATE APPRAISAL BOARD

Reg. No.	Action	Register
117-1-1	Amended	V. 13, p. 974
117-2-1	Amended	V. 12, p. 528
117-2-2	Amended	V. 13, p. 913
117-2-4	Amended	V. 12, p. 529
117-3-1	Amended	V. 12, p. 529
117-3-2	Amended	V. 13, p. 913
117-4-1	Amended	V. 12, p. 1699
117-4-2	Amended	V. 13, p. 913
117-4-4	Amended	V. 12, p. 530
117-5-1	New	V. 13, p. 975
117-6-1	Amended	V. 13, p. 914
117-6-2	Amended	V. 12, p. 531
117-8-1	Amended	V. 12, p. 531



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