



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

NOV 27 1978

Ref: SA/JOL

All Agreement States

NRC BULLETIN ON CERTAIN KAY-RAY GAUGES

On at least three occasions in the past year, fractures have occurred at the weld between the dome and the box of source heads used in Kay-Ray Gauges, Models 7050, 7050B, 7051, 7051B, 7060, 7060B, 7061 and 7061B. These weld fractures caused the dome to separate from the box exposing the 500 millicurie cesium-137 sealed source. In one case, the source fell loose and was completely exposed.

To correct the potential hazard, Kay-Ray has developed a support bracket which they will supply free of charge to affected licensees which is intended to prevent dome separation if a fracture occurs. On June 30, 1978, Kay-Ray wrote to affected customers notifying them of the availability of the support bracket and asking them to return a card confirming possession of the source heads (Enclosure A). A number of Kay-Ray customers have not returned the card.

Ninety-two customers are located in Agreement States and subject to Agreement State jurisdiction (Enclosure B).

Because of the incomplete response to Kay-Ray's June 30, 1978 letter and the potential radiation hazard which may result if the units are not modified, NRC is contacting all affected customers within NRC's jurisdiction through IE Bulletin No. 78-13, dated October 27, 1978 (Enclosure C). The Bulletin contains a form to be returned to NRC and a card to be mailed to Kay-Ray if the source is still in possession of the licensee.

We ask that each of the Agreement States having affected Kay-Ray customers within their jurisdiction to do at least the following: Write to each customer in your State notifying them of the potential hazard; ask each customer to take the actions requested in the IE Bulletin and obtain confirmation that the actions have been taken.

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All Agreement States

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We would also appreciate a summary of the results of your efforts. If you or your licensees encounter any problems or have any questions, please contact either myself or Joel Lubenau. We are enclosing, in addition to the copy of the IE Bulletin, extra copies of Kay-Ray's June 30, 1978 letter to its customers and extra Kay-Ray post cards.

*G. Wayne Kerr*

G. Wayne Kerr, Assistant Director  
to State Agreements Program  
Office of State Programs

Enclosures:  
See Attached List

Alabama:

U.S. Steel Corp.  
Fairfield Works  
Birmingham, AL 35064  
ATTN: Gene Borgoz

Zurn Industries, Inc.  
275 North 1st Street  
Air Systems Div.  
Birmingham, AL 35204

K.C. Corp. Coosa River Newsprint  
Operations  
Coosa Pines, AL 35044  
ATTN: David B. Swanger

Champion Papers  
Industrial Devel. Board  
of the Town of Courtland  
Courtland, Alabama 35618

Alabama Electric Coop  
Tombigbee Generating Station  
Leroy, AL 36548

Olin Corp.  
P.O. Box 115  
McIntosh, AL 36553  
ATTN: W. R. Mauldin

Scott Paper Co.  
Bay Bridge Road  
Mobile, AL 36601  
ATTN: R. W. Robertson

Scott Paper Co.  
Bay Bridge Road  
Mobile, AL 36601  
ATTN: N. A. Strack

International Paper  
Paper Mill Road  
P.O. Box 2448  
Mobile, AL 36601  
ATTN: Jerry M. Caffman

Scott Paper Company  
Southern Operations  
P.O. Box 2447  
Mobile, AL 36601

American Can Co.  
Route 114  
Naheola Landing  
Naheola, AL 36904  
ATTN: Ken Bryant

Degussa-Alabama  
P.O. Box 606  
Theodore, AL 36582  
ATTN: R. Merger

Arizona:

Cyprus Bagdad Copper Co.  
P.O. Box 245  
Bagdad, AZ 86321  
ATTN: K. C. Apland

Arizona Elec. Power Coop.  
P.O. Box 104  
Cochise, AZ 85606  
ATTN: W. Georges

Inspiration Consolidated Copper Co.  
Inspiration  
Arizona 85537  
ATTN: Bob Murray

Research Cottrell  
c/o Arizona Public Serv. Co.  
Cholla Station, Unit 2  
Joseph City, AZ 86032  
ATTN: Mike Macusak

Anamax Mining. Co.  
Twin Buttes Mine  
Box 127  
Sahuarita, AZ 95629  
ATTN: Ernest M. Lopez

Southwest Forest Industries  
P.O. Box 128  
Snowflake, AZ 85937  
ATTN: Oscar Boyd

Arkansas:

Nekoosa Papers., Inc.  
P.O. Box 775  
Ashdown, Arkansas 71822  
ATTN: F. White

*W. R. Mauldin*

Arkansas (Continued)

Tennessee Forging  
P.O. Box 310  
Newport, Arkansas 72112  
ATTN: D. Jarrett

Potlatch Corp.  
P.O. Box 809  
McGehee, Arkansas 71954

California:

E.I. Du Pont De Nemours & Co.  
P.O. Box 310  
Antioch, CA 94509  
ATTN: Emil A. Davis

Cal-Neu Pipe Line Co.  
1901 Slever Ave.  
Bloomington, CA 92316  
ATTN: Chief Instrumentation Eng.

Allied Chemical  
850 South Sepulveda  
El Segundo, CA 90245  
ATTN: John Haddad

(TAMCO)  
Ameron Steel  
12459 Arrow Highway  
Etiwanda, CA 07645  
ATTN: Sam Kantzalis

Byron-Jackson, Inc.  
6505 Paramount Blvd.  
Long Beach, CA 90805  
ATTN: Hugh Haven

Amstar Corp.  
29000 Whitsbridge Rd.  
Mendota, CA 93640

Grefco Corp.  
300 Haven Avenue  
Ontario, CA 91764  
ATTN: Gene Grimes

California (Continued)

Certain Teed Products Corp.  
1014 Chesley Ave.  
Richmond, CA 94804  
ATTN: Tommy J. Prugh

Kaiser Steel Corp.  
Steel Mfg. Div.  
P.O. Box 217  
Fontana, CA 92335  
ATTN: Ron Sullivan

Lockheed Missile & Space Co.  
P.O. Box 504  
Org. 57/24 Bldg. 532  
Sunnyvale, CA 94086  
ATTN: Dr. Luis A. Vega

Owens Illinois Inc.  
14700 W. Schulte Road  
Tracy, CA 95376  
ATTN: Chief Instrumentation Engr.

Colorado:

Peavey Company, Inc.  
4545 East 64th Street  
Commerce City, Colorado 80203  
ATTN: W. Walker

Florida:

St. Regis Paper  
P.O. Box 87  
Cantonment, Florida  
ATTN: George Gibson

Great Lakes Dredge & Dock Co.  
1680 Port Blvd.  
Dodge Island  
Miami, Florida 33132  
ATTN: Sodhir Shroff

Zimpro  
c/o Intercounty Construction  
Wastewater Treatment Plant  
Northwest 6th St. 7NW 19th Ave.  
Ft. Lauderdale, Florida  
ATTN: Gary Plates

Florida (Continued)

International Paper Co.  
P.O. Box 2487  
Panama City, Florida 32401  
ATTN: R. W. Ivey

Buckeye Cellulose Corp.  
Perry Florida 32347  
ATTN: Bill Maddox

Buckeye  
Watkins, E.M. & Co.  
Prairie Florida 32347  
ATTN: Chief Instrumentation Engr.

Georgia:

Atlantic Steel Co.  
1300 Mecaln St.  
Atlanta, GA 30301  
ATTN: W. C. Bussert

Owens Illinois, Inc.  
Highway 31, Paper MILL  
Clyattville, GA 31604  
ATTN: David Thames

Gilman Paper Co.  
Osborn Street  
St. Marys, GA 31558  
ATTN: R. M. Williams

Kentucky:

Armco Steel Co.  
Ashland Works  
Ashland, KY 41101  
ATTN: Chief Instrumentation Engr.

Dow Corning Corp.  
Highway 61 Box 628  
Elizabethtown, KY 42701  
ATTN: Carroll Coogle

Medley Distilling Co.  
P.O. Box 386  
Owensboro, KY 42301  
ATTN: James Conkright

Kansas:

Kansas Power & Light  
Lawrence Station Miles Post 30  
Lawrence, Kansas 66044  
ATTN: Rich Bohlin

Louisiana:

International Paper Co.  
Louisiana Mill  
Bastrop, Louisiana 71220  
ATTN: Chief Instrumentation Engr.

EXXON Chemical  
P.O. Box 481  
Baton Rouge, Louisiana 70821

Amax Nickel Refining Co., Inc.  
Highway 39  
Braithwaite, Louisiana 70040

Maryland:

Ellicott Machine Corp  
Dredge Division  
Baltimore, Maryland 21230  
ATTN: Charles Scheid

Bethlehem Steel Corp.  
Sparrows Point Maryland 21219  
ATTN: E. B. Hay

Mississippi:

Mississippi Steel Div. of  
Magna Corp.  
P.O. Box 5780  
Jackson, MS 39208  
ATTN: Mr. John Rigsby

International Paper Co.  
P.O. Box 311  
Natchez, MS 39120  
ATTN: T. J. Wilson

New Hampshire:

Brown Co.  
Instrument Dept.  
Berlin, N.H. 03570  
ATTN: Nick Thompson

New Mexico:

Sohio Natural Resources Co.  
L-Bar Ranch Uranium Operations  
P.O. Box 25201  
Albuquerque, New Mexico 87112  
ATTN: John A. Ritt

Phelph Dodge  
Animas  
New Mexico 88020  
ATTN: Chief Instrumentation Engr.

Kerr-McGee  
Box 218  
Grants, New Mexico 87020  
ATTN: John R. Rookstool

Solid State Systems, Inc.  
1231 King View Drive SE  
Smyrna, Georgia 30080  
ATTN: Chief Instrumentation Engr.

New York:

T. H. Greene Elec. Co.  
Metor Sewage Plant  
650 Hiawatha  
Syracuse, New York 13201  
ATTN: Brian Newman

(Baltimore, City of)  
Jones & Lewis  
P.O. Box 25  
West Binghamton, New York 13905  
ATTN: Vic Tenorio

Oregon:

Weyerhaeuser Company  
Springfield Paper Mill  
Springfield, Oregon 97477  
ATTN: Charles Hinkle

Georgia Pacific Corp.  
P.O. Box 580  
Toledo, Oregon 97391  
ATTN: Raymond Southwell

Georgia Pacific Corp.  
Toledo, Oregon 97391  
ATTN: Dan Tough

South Carolina:

International Paper  
Georgetown, S.C. 29440  
ATTN: J. K. Godwin

Giant Portland Cement  
P.O. Box 218  
Harleyville, S.C. 29448  
ATTN: Jack Wheeler

Bowater Carolina Corp.  
P.O. Box 7  
Catawba, S.C. 20704  
ATTN: L. G. Gardner

Tennessee:

Olin Chemical Corp.  
P.O. Box 248  
Charleston, Tennessee 37310  
ATTN: John Burns

Texas:

Amoco Chemical  
Box 1488  
Alvin, Texas 77511  
ATTN: B. Glardon

Stauffer Chemical Co.  
Industrial Chemical Division  
Baytown, Texas 77520  
ATTN: Chief Instrumentation Engr.

Texas (Continued)

Gulf Oil Chemical  
P.O. Box 509  
Interstate 10  
Baytown, TX 77520  
ATTN: Neal Martin

Celanese Plastics Co.  
P.O. Box 423  
Bishop, TX 78343  
ATTN: Jim Chiles

Wallance Construction  
Oak Grove Sewer Plant  
FM 1183  
Ennis, TX 75118  
ATTN: Chief Instrumentation Engr.

Dow Chemical  
Bldg. 302 - Door A  
Freeport, TX  
ATTN: E. W. Paltifek

Southwestern Public Ser. Co.  
Box 1261  
Harrington Unit #1  
Amarillo TX 79170  
ATTN: Gene Bernhardt

Stauffer Chemical Co.  
8615 Manchester  
Houston, TX 77012  
ATTN: Dennis Calahan

Maxwell House Division  
General Foods Corp.  
3900 Harrisburg Blvd.  
Houston, Texas 77001  
ATTN: H. L. Potcinski

Dallas Southside Water Treatment  
c/o Teton Construction  
P.O. Box 336  
Kriegler, TX 75145  
ATTN: Bill Talle

The Upjohn Company  
Miller Cutoff Road  
P.O. Box 685  
LaPorte, TX 75771  
ATTN: Merlyn E. Bissell

Cabot Corp.  
Machinery Div.  
Warehouse #2  
Highway 60 West  
Pampa, TX 79065  
ATTN: R. T. Gross

Structural Metals  
P.O. Box 911  
Billy Kwyer Road  
Sequin, TX 78155  
ATTN: L. Friesenhahn

Eastex Inc.  
Box 816  
Silsbee, TX 77656  
ATTN: Jarrell D. Morris

Texas Utilities Generating Co.  
Martin Lake Power Facility  
Tatum, Texas 75691  
ATTN: Pete Ulvog

International Paper Co.  
P.O. Box 870  
Texarkana, TX 75501  
ATTN: Chief Instrumentation Engr.

Monsanto Company  
201 Bay Street South  
Texas City, TX 77590  
ATTN: Chief Instrumentation Engr.

(Mead Pipe)  
Western Foundry  
Tyler, TX  
ATTN: D. Evans, Jr.

Washington

P & M Coal Co.  
P.O. Box 199  
DuPont, WA 98317

Ventron Corporation  
Twidwell Road  
Elma, WA  
ATTN: Bob Berg

Weyerhaeuser Co.  
Kraft Mill  
Everett, WA  
ATTN: Norman Stratton

Reynolds Metals Co.  
4029 Industrial Way  
Longview, WA 98632  
ATTN: Ivan Emerson

Longview Fiber  
Longview, WA 98632  
ATTN: Milton Libby

Weyerhaeuser Co.  
Pulp Lab.  
P.O. Box 188  
Longview, WA 98632

Wastewater Treatment Plant  
City of Spokane  
N. 4401 Aubrey White Parkway  
Aubrey White Parkway  
Spokane, WA 99205  
ATTN: John R. Snell