



10 CFR 20 Appendix G

January 9, 2017

LC-2017-0004

U.S. Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

La Crosse Boiling Water Reactor  
Facility Operating License No. DPR-45  
NRC Docket Nos. 50-409 and 72-046

Subject: Report of Investigation Pursuant to 10 CFR Part 20 Appendix G

This letter documents the results of an investigation performed with respect to twelve radioactive waste shipments contained on two railcars, which exceeded the 20 day limit for notification of receipt from the disposal facility as specified in 10 CFR part 20 Appendix G. The investigation was completed on January 3, 2017. The shipments were being traced on a daily basis and the location of the shipments were known to the carrier, Union Pacific Railroad (UP) and to LaCrosseSolutions, LLC Waste Operations personnel. The disposal facility notification verified that the shipments were received as indicated below.

10 CFR part 20 Appendix G, "*Requirements for Transfers of Low-Level Radioactive Waste Intended for Disposal at Licensed Land Disposal facilities and Manifests*," Section III.A(9) states a licensee shall for any shipments or any part of a shipment for which acknowledgment of receipt has not been received within the times set forth in this appendix, conduct an investigation in accordance with paragraph E of this appendix.

Paragraph E states that any shipment or part of shipment for which acknowledgment is not received within the times set forth in this section must:

1. Be investigated by the shipper if the shipper has not received notification or receipt within 20 days after transfer; and
2. Be traced and reported. The investigation shall include tracing the shipment and filing a report with the nearest Commission Regional Office listed in Appendix D to this part. Each licensee who conducts a trace investigation shall file a written report with the appropriate NRC regional Office within 2 weeks of completion of the investigation.

#### Investigation

Receipt acknowledgements from the Clive Disposal Facility for the 12 radioactive waste shipments contained on the two railcars listed below were received on December 27, 2016. The shipments consisted of intermodal containers which were transloaded onto railcars at the Winona, MN transload facility. The shipment date is the date the truck carrying the intermodal left the LACBWR Site Restoration Project enroute to the Winona, MN transload facility.

Shipment Number	Manifest Number	Shipment Date	Contents	Activity mCi	Railcar Number	Acknowledgement Due Date
RW-16-009	0978-01-0005	11/30/16	Demolition Debris	6.7425	GIMX-007021	12/20/16
RW-16-010	0978-01-0007	12/2/16	Demolition Debris	6.3666	GIMX-007021	12/22/16
RW-16-011	0978-01-0014	12/2/16	Demolition Debris	6.4474	GIMX-007021	12/22/16
RW-16-012	0978-01-0015	12/2/16	Demolition Debris	6.2664	GIMX-007021	12/22/16
RW-16-013	0978-01-0003	12/2/16	Demolition Debris	11.519	GIMX-007021	12/22/16
RW-16-014	0978-01-0016	12/2/16	Demolition Debris	7.4425	GIMX-007021	12/22/16
RW-16--015	0978-01-0017	12/2/16	Demolition Debris	0.8388	GIMX-007021	12/22/16
RW-16-016	0978-01-0018	12/6/16	Demolition Debris	6.8005	GIMX-007010	12/26/16
RW-16-017	0978-01-0019	12/6/16	Demolition Debris	5.9276	GIMX-007010	12/26/16
RW-16-018	0978-01-0020	12/6/16	Demolition Debris	6.6893	GIMX-007010	12/26/16
RW-16-019	0978-01-0021	12/6/16	Demolition Debris	231.48	GIMX-007010	12/26/16
RW-16-020	0978-01-0010	12/6/16	Demolition Debris	6.1028	GIMX-007010	12/26/16

Transport of railcar GIMX-007021 started on December 6, 2016 from the Winona, MN transload facility. The railcar was bad ordered (railcar condition requiring repair prior to further transport) for trucks and bolsters on December 15, 2016 at Roper, UT. Repairs were made and the bad order released on December 17, 2016. GIMX-007021 was placed at the Clive Disposal Site on December 20, 2016 and was off-loaded on December 21, 2016.

Transport of railcar GIMX007010 started on December 8, 2016 from the Winona, MN transload facility and continued without significant delays to the Clive Disposal facility. GIMX-007010 was placed at the Clive disposal facility on December 20, 2016 and was off-loaded on December 21, 2016.

The Clive Disposal facility provided receipt acknowledgement of the above shipments within the allotted timeframe of 1 week as allowed by 10 CFR 20 Appendix G, Section III, Paragraph D.1.

Due to the rail transit time and the allowed receipt acknowledgement time, receipt acknowledgement was not received at LACBWR in the 20 day time frame provided for in 10 CFR 20 Appendix G, Section III, Paragraph E.1. Total transit time between when the first

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container was released from the LACBWR site, beginning November 30, 2016, until verification of receipt was received ranged from twenty-one (21) to twenty-seven (27) days. Industry experience shows these transit times are not inordinate and/or uncommon during rail transportation. The location of the railcars containing the shipments were traced by LaCrosseSolutions, LLC on a daily basis until their receipt by EnergySolutions. At no time were the shipments lost or at an unknown location.

Should you have any questions regarding this submittal, please contact me at 224-789-4025.

Respectfully,

*for James Oshy*

Gerard van Noordennen  
Vice President Regulatory Affairs

cc: Marlayna Vaaler, U.S. NRC Project Manager  
U.S. NRC, Document Control Desk  
Service List

## La Crosse Boiling Water Reactor Service List

cc:

Ken Robuck  
Group President Disposal and  
Decommissioning  
*EnergySolutions*  
299 South Main Street, Suite 1700  
Salt Lake City, UT 84111

John Sauger  
Executive VP and Chief Nuclear Officer  
Reactor D & D  
*EnergySolutions*  
2701 Deborah Avenue  
Zion, IL 60099

Gerard van Noordennen  
VP Regulatory Affairs  
*EnergySolutions*  
2701 Deborah Avenue  
Zion, IL 60099

Joseph Nowak  
General Manager  
*LaCrosseSolutions*  
S4601 State Highway 35  
Genoa, WI 54632-8846

Dan Shrum  
Senior VP Regulatory Affairs  
*EnergySolutions*  
299 South Main Street, Suite 1700  
Salt Lake City, UT 84111

Russ Workman  
General Counsel  
*EnergySolutions*  
299 South Main Street, Suite 1700  
Salt Lake City, UT 84111

Jerome Pedretti, Clerk  
Town of Genoa  
E860 Mundsack Road  
Genoa, WI 54632

Jeffery Kitsembel  
Division of Energy Regulation  
Wisconsin Public Service Commission  
P.O. Box 7854  
Madison, WI 53707-7854

Paul Schmidt, Manager  
Radiation Protection Section  
Bureau of Environmental and Occupational Health  
Division of Public Health  
Wisconsin Department of Health Services  
P.O. Box 2659  
Madison, WI 53701-2659

Barbara Nick  
President and CEO  
Dairyland Power Cooperative  
3200 East Avenue South,  
La Crosse, WI 54602-0817

Cheryl Olson, ISFSI Manager  
La Crosse Boiling Water Reactor  
Dairyland Power Cooperative  
S4601 State Highway 35  
P.O. Box 817  
Genoa, WI 54632-8846

Lane Peters  
La Crosse Boiling Water Reactor  
Dairyland Power Cooperative  
S4601 State Highway 35  
Genoa, WI 54632-8846

Thomas Zaremba  
Wheeler, Van Sickle and Anderson, S.C.  
44 East Mifflin Street, Suite 1000  
Madison, WI 53703

John E. Matthews  
Morgan, Lewis & Bockius LLP  
1111 Pennsylvania Avenue, NW  
Washington, DC 2000