

WILLIAM L. BERG
President and CEO



March 17, 2011

In reply, please refer to LAC-14164

DOCKET NO. 50-409

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U. S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Dairyland Power Cooperative
La Crosse Boiling Water Reactor (LACBWR)
Possession-Only License No. DPR-45
Annual Report for 2010 – Personnel Exposure and Description of Changes, Tests
and Experiments

REFERENCES: (1) LACBWR Technical Specification, Section 6.5.1.1
(2) 10 CFR 50.59(d)(2)

In accordance with Reference 1, we are submitting the Annual Report covering the radiological exposure summary.

Also included are brief descriptions of facility changes, including summaries of evaluations, as required by Reference 2. No tests or experiments were conducted during 2010.

If there are any questions concerning this report, please contact us.

Sincerely,

DAIRYLAND POWER COOPERATIVE

William L. Berg, President and CEO

WLB: JBM: jkl

Enclosures

cc/enc: John Hickman, NRC Project Manager
Mark Satorius, Regional Administrator, NRC Region III
Peter Lee, Decommissioning Branch, NRC Region III

FSME20
FSME

A Touchstone Energy® Cooperative

**La Crosse Boiling Water Reactor
(LACBWR)**

Possession Only License No. DPR-45

2010 ANNUAL REPORT

PERSONNEL EXPOSURE

AND

DESCRIPTION OF
CHANGES, TESTS, AND EXPERIMENTS

Dairyland Power Cooperative
3200 East Avenue South
La Crosse, WI 54602-0817

2010 Dose Distribution

Date: 01/14/2011

License No. DPR-45

Licensee: DAIRYLAND POWER COOPERATIVE

Affiliated Lic. No.:

Dose Range (rem)	Primary & Affiliated Licensee Records		All Records for Monitoring Year	
	Number of Individuals	TEDE Dose (person - rem)	Number of Individuals	TEDE Dose (person - rem)
No Meas. Exposure	32		32	
Meas. < .100	67	1.520	67	1.520
.100 - .250	11	1.451	11	1.451
.250 - .500				
.500 - .750				
.750 - 1.000				
1.000 - 2.000				
2.000 - 3.000				
3.000 - 4.000				
4.000 - 5.000				
> 5.000				
Number with Meas. TEDE	78		78	
Total Monitored	110		110	
Total Collective TEDE		2.971		2.971
Total Collective CEDE				

APPENDIX A

STANDARD FORMAT FOR REPORTING NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION

2010 Work & Job Function	Number of Personnel (>100 mRem)			Total Man-Rem		
	Station Employees	Utility Employees	Contract Workers and Others	Station Employees	Utility Employees	Contract Workers and Others
<u>REACTOR SURVEILLANCE</u>						
Maintenance Personnel	0	0	0	0.416	0.000	0.000
Operating Personnel	0	0	0	0.205	0.000	0.000
Health Physics Personnel	0	0	0	0.192	0.000	0.000
Supervisory Personnel	0	0	0	0.050	0.000	0.000
Engineering Personnel	0	0	0	0.032	0.000	0.042
<u>ROUTINE MAINTENANCE</u>						
Maintenance Personnel	0	0	0	0.026	0.000	0.000
Operating Personnel	0	0	0	0.035	0.000	0.000
Health Physics Personnel	0	0	0	0.004	0.000	0.000
Supervisory Personnel	0	0	0	0.006	0.000	0.000
Engineering Personnel	0	0	0	0.000	0.000	0.000
<u>INSERVICE INSPECTION</u>						
Maintenance Personnel	0	0	0	0.000	0.000	0.000
Operating Personnel	0	0	0	0.000	0.000	0.000
Health Physics Personnel	0	0	0	0.000	0.000	0.000
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Engineering Personnel	0	0	0	0.000	0.000	0.000
<u>SPECIAL MAINTENANCE</u>						
Maintenance Personnel	2	0	5	0.247	0.000	0.937
Operating Personnel	0	0	0	0.200	0.000	0.000
Health Physics Personnel	0	0	0	0.131	0.000	0.000
Supervisory Personnel	0	0	0	0.084	0.000	0.120
Engineering Personnel	0	0	0	0.000	0.000	0.043

APPENDIX A - (cont'd)
2010

Work & Job Function	Number of Personnel (>100 mRem)			Total Man-Rem		
	Station Employees	Utility Employees	Contract Workers and Others	Station Employees	Utility Employees	Contract Workers and Others
<u>WASTE PROCESSING</u>						
Maintenance Personnel	0	0	0	0.026	0.000	0.166
Operating Personnel	0	0	0	0.003	0.000	0.000
Health Physics Personnel	0	0	0	0.006	0.000	0.000
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Engineering Personnel	0	0	0	0.000	0.000	0.000
<u>DEFUELING</u>						
Maintenance Personnel	0	0	0	0.000	0.000	0.000
Operating Personnel	0	0	0	0.000	0.000	0.000
Health Physics Personnel	0	0	0	0.000	0.000	0.000
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Engineering Personnel	0	0	0	0.000	0.000	0.000
<u>TOTAL</u>						
Maintenance Personnel	2	0	5	0.715	0.000	1.103
Operating Personnel	0	0	0	0.443	0.000	0.000
Health Physics Personnel	0	0	0	0.333	0.000	0.000
Supervisory Personnel	0	0	0	0.140	0.000	0.120
Engineering Personnel	0	0	0	0.032	0.000	0.085
GRAND TOTAL	2	0	5	1.663	0.000	1.308

MAXIMUM INDIVIDUAL DOSE DURING CALENDAR YEAR: 0.189 Rem – LACBWR Maintenance

DESCRIPTION OF CHANGES, TESTS, AND EXPERIMENTS

2010

FACILITY MODIFICATIONS

The following facility modifications were physically completed in 2010. The changes were performed under the work control process and documented in work order files. Each modification is associated with a specific Work Order (WO). A summary of the evaluation of each, performed according to 10 CFR 50.59, is included. It was determined that prior NRC approval was not required for these facility modifications.

WO-09-01 LACBWR ISFSI Site Vibro-Compaction and Verification Testing

This activity involved the improvement of the soil beneath the LACBWR ISFSI site using the vibro-compaction technique to support the loads projected to be imparted by the concrete ISFSI pad under both static and dynamic (seismic) loading conditions. The activity also included a post-vibro-compaction soil density test to confirm the soil met the minimum specified requirements. All work was accomplished on the ISFSI site located south of the LACBWR facility within the licensed site. The 50.59 screen, prepared in accordance with LACBWR Administrative Control Procedure (ACP) 06.4, "10 CFR 50.59 Evaluations," concluded that this activity did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-09-05 Vertical Concrete Cask (VCC) Construction

Five VCCs for the NAC-MPC system were constructed on site in accordance with NAC-MPC FSAR and NAC QA program requirements. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this activity did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-09-08 Administration Building Grading and Drainage Work

This modification included grading and drainage activities associated with site preparation for the ISFSI Administration Building, parking lot, and heavy haul path south of the lime haul road and east of the ISFSI site. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this modification did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-09-09 ISFSI Outer Perimeter Fence Installation (Owner Controlled Area)

This modification installed woven fabric fencing and gates around the outer perimeter of the area controlled by Dairyland Power Cooperative within which the ISFSI is located. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-09-10 Administration Building Construction and BRE Installation

This modification documented the construction of the 30' by 60' ISFSI Administration Building and installation of the attached Bullet Resistant Enclosure. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-03 LACBWR ISFSI Pad Installation

The 32' by 48' reinforced concrete ISFSI pad was installed in accordance with NAC-MPC FSAR requirements. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-04 Interference Removal in the Reactor Building

Piping and conduits below Reactor Building mezzanine floor north were moved prior to floor supports and cask pool installation. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this modification did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-06 Not Important to Safety ISFSI Perimeter Fencing Installation

This activity installed the ISFSI interior perimeter fencing (Protected Area), exterior perimeter fencing (Isolation Zone), and fencing around the ISFSI standby diesel generator. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-10 Install Electrical Security Foundations at the ISFSI

This activity involved the necessary grading, buried utilities excavation, culvert work, concrete placement, and fencing installation around the LACBWR ISFSI concrete pad including:

1. Camera tower foundations
2. Light pole foundations
3. Microwave Link and periphery fence foundations and posts
4. Cask RTD support structure foundations
5. Conduit trenching as required to provide power to the towers and fencing around the ISFSI pad

The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-11 Excavation and Backfill of the ISFSI Pad Foundation and Heavy Haul Path Approach Areas

This activity included all work and testing necessary to provide the engineered soil subgrade to construct the concrete pad and heavy haul path approach at the appropriate elevation. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that implementation of this modification did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-15 Reactor Building Bio-Shield Liner Work

This activity involved the installation of appropriate interfacing modifications to the bio-shield concrete and upper cavity steel liner to ensure water retention in the area between the upper cavity liner, the cask pool, and cask pool gate. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-23 Installation of the Diesel Generator at the ISFSI Administration Building

This activity installed an 80-kW diesel generator at the ISFSI Administration Building for standby power. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this installation did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-26 Paving of the Heavy Haul Path (HHP) Alongside the G-3 Coal Pile

This modification included all necessary erosion control, grading, drainage, buried utilities excavation, culvert work, and road construction to prepare and install the stone paved portion of the HHP along the east side of the G-3 coal pile. The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this modification did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

WO-10-27 Underground Electrical Work at the ISFSI

This activity included installation of conduit to light pole foundations, setting camera towers, setting light poles, pulling all cables, installing junction boxes, installing ISFSI lighting, terminating diesel generator, and excavation and installation of all manholes (pull boxes). The 50.59 screen, prepared in accordance with ACP-06.4, concluded that this activity did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 Evaluation was not required.

TESTS

There were no tests conducted during 2010.

EXPERIMENTS

There were no experiments conducted during 2010.