WILLIAM L. BERG
President and CEO

DAIRYLAND POWER
COOPERATIVE

February 23, 2006

In reply, please refer to LAC-13899

DOCKET NO. 50-409

Document Control Desk
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 2005 - Report 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 2005.

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

Sincerely,

DAIRYLAND POWER COOPERATIVE

William L Berg

William L. Berg, President & CEO

WLB:JBM:dh

Enclosures

cc/enc: Kristina Banovac, NRC Project Manager
Peter Lee, Decommissioning Branch, NRC Region III

NMSS01

La Crosse Boiling Water Reactor (LACBWR)

ANNUAL REPORT - 2005

Prepared by

Jeff Mc Rill
Technical Support Engineer

POSSESSION-ONLY LICENSE NO. DPR-45

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

DESCRIPTION OF CHANGES, TESTS, AND EXPERIMENTS

2005

FACILITY CHANGES

The following facility changes were physically completed in 2005. A summary of the evaluation of each, performed according to 10 CFR 50.59, is included. A determination was made that prior NRC approval was not required for these facility changes.

06-04-29 Remove Zone 20 Smoke Alarm Units

Three louvered openings of the Turbine Building main floor west wall provided an air sweep of the Turbine Building to the ventilation stack. These openings were equipped with Zone 20 smoke detectors that monitored incoming airflow and acted to close the louvers upon fire in LACBWR switchyard transformers and equipment. During plant operation this closure would prevent filling the Turbine Building with smoke from such a fire. The reserve auxiliary transformer, protected by an automatic deluge system, is the only switchyard component remaining that poses a fire risk. During SAFSTOR, two of the louvered openings have been closed and only the center opening is being used for ventilation. The smoke detector for this opening was susceptible to spurious alarms from cold air inflow and burning coal barges moored to the west. Three Zone 20 smoke detectors were removed because other zone alarms provide adequate detection. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

25-05-10 Change LACBWR Controlled Area Fence

The LACBWR controlled area fence was moved to allow space for parking at the adjacent coal-fired generating facility, Genoa Unit 3. Previously performed soil surveys indicate area is not radiologically impacted. Area is portion of originally licensed site and remains under restricted use controlled by licensee. Area and landmarks are definitively documented. Final disposition of area will be determined during ultimate release surveys of License Termination process. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

37-05-29 Install High Radiation Gate

Removal of lower cavity concrete shield blocks inside the biological shield of the Reactor Building provided access to a high radiation area surrounding the reactor pressure vessel. A gate capable of being locked was installed at the entrance to this area to control access. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

48-04-11 Remove Stack Instrument Boom

The instrument boom mounted on the ventilation stack at the 100 meter elevation was removed during the 5-year stack inspection. Meteorological instruments installed at this location are not required in SAFSTOR. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

74-04-74 Split the Turbine Building Unit Heater Supply Circuit

The LACBWR Turbine Building is heated by 21 steam unit heaters equipped with small fans. Over the years several failed 1/45 Hp fan motors have been replaced with 1/20 Hp motors. This increased electrical load caused the 20-amp breaker supplying unit heater fan motors to trip on overload if all 21 fans were energized simultaneously. The Turbine Building unit heater supply circuit was split at a convenient junction box and a second 20-amp breaker supply circuit was installed to ensure reliability of the Turbine Building heating system. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

74-05-75 Replace Failed Static Trip Device with Fuses

The static trip device installed on a 480-Volt breaker failed. A static trip device is a small input/output controller with solid-state timers. Input is from current transformers; output is a magnetic latch release that allows spring action to open the circuit breaker under fault. Replacement of this component was extremely expensive. A low cost alternative was to install fuses at the point where feeder cables attach to the electrical bus. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there

was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

74-05-76 Remove Unused Wiring in Reactor Building

This change removed abandoned wiring in the Reactor Building located in the path of the reactor pressure vessel removal. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

75-01-15 Cross Tie of G-3 and LACBWR Fire Loops

LACBWR has two High Pressure Service Water (HPSW) diesel pumps installed for back-up fire suppression water supply. One diesel pump supplies maximum LACBWR demand. New fire suppression additions at the adjacent coal-fired generating facility, Genoa Unit 3 (G-3) required adding back-up diesel pump capacity to that system. A cross-connect between the LACBWR and G-3 fire suppression water systems was installed to provide excess LACBWR capacity to G-3. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

78-04-23 Reconfigure Control of 1B Emergency Diesel Generator

Emergency power requirements were removed with NRC approval of SAFSTOR Technical Specifications. Two diesel generators provide standby power and are installed in heated spaces of the facility. Engine heaters are not required to ensure start of these units. 1B Emergency Diesel Generator (EDG) control circuit contained ten alarm and protective functions. Some functions caused trip/lockout in automatic and manual start modes while others caused trip/lockout in manual start mode only. In automatic, this would allow unit to be run to failure if necessary for safe shutdown of the reactor during plant operation. All ten functions individually caused a single trouble alarm. Changes were needed in the control of 1B EDG to improve operation and better protect equipment during SAFSTOR. Because engine heaters are not required to ensure start of this unit, an operational change was made to not operate 1B EDG engine heaters with room temperature above 45° F as monitored on routine tours. This change allowed the low water temperature relay to be disabled. The low battery voltage relay caused the trouble alarm to lock-in at start of 1B EDG and prevented alarm of other conditions until reset. The low battery voltage relay was disabled because battery condition is checked weekly. With low water temperature and low battery voltage

functions removed, the control circuit was able to be simplified. The control circuit was modified such that eight functions will cause trip/lockout of the unit regardless of mode of operation. These functions are:

Phase Differential	High Water Temperature
Overspeed	Overvoltage
Overcrank	Overcurrent
Low Oil Pressure	Ground Fault

The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

78-04-26 Disable Annunciator F 4-7, "Diesel Generator 1A Low Temperature"

Emergency power requirements were removed with NRC approval of SAFSTOR Technical Specifications. Two diesel generators provide standby power and are installed in heated spaces of the facility. Engine heaters are not required to ensure start of these units. An operational change was made to not operate 1A EDG engine heaters with room temperature above 45° F as monitored on routine tours. With an alarm setpoint of 70° F, the "Diesel Generator 1A Low Temperature" annunciator in control room was disabled to accommodate this operational change. The 50.59 screen, prepared under the 10 CFR 50.59 review procedure, concluded that implementation of this facility change did not require prior NRC approval, that there was no need for any change to Technical Specifications, and that a 50.59 evaluation per the 10 CFR 50.59 review procedure was not required.

TESTS

There were no tests conducted during 2005.

EXPERIMENTS

There were no experiments conducted during 2005.

2005 Dose Distribution

Date: 01/18/2006
License No. DPR-45
Licensee: DAIRYLAND POWER COOPERATIVE
Affiliated Lic. No.:

Dose Range (rem)	Primary & Affiliated Licensee Records: Number of Individuals	Primary & Affiliated Licensee Records: TEDE Dose (person – rem)	All Records for Monitoring Year: Number of Individuals	All Records for Monitoring Year: TEDE Dose (person – rem)
No Meas. Exposure	28		28	
Meas. < .100	40	0.754	40	0.754
.100 - .250	5	0.861	5	0.861
.250 - .500	2	0.754	2	0.754
.500 - .750	1	0.633	1	0.633
.750 - 1.000				
1.000 - 2.000	3	5.137	3	5.137
2.000 - 3.000				
3.000 - 4.000				
4.000 - 5.000				
> 5.000				
Number with Meas. TEDE	51		51	
Total Monitored	79		79	
Total Collective TEDE		8.139		8.139
Total Collective CEDE				

APPENDIX A

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

2005	*Number of Personnel (>100 mRem)*			*Total Man-Rem*		
Work & Job Function	**Station Employees**	**Utility Employees**	**Contract Workers and Others**	**Station Employees**	**Utility Employees**	**Contract Workers and Others**
REACTOR SURVEILLANCE						
Maintenance Personnel	0	0	0	0.253	0.000	0.000
Operating Personnel	0	0	0	0.247	0.000	0.000
Health Physics Personnel	0	0	0	0.392	0.000	0.000
Supervisory Personnel	0	0	0	0.122	0.000	0.000
Engineering Personnel	0	0	0	0.382	0.000	0.015
ROUTINE MAINTENANCE						
Maintenance Personnel	0	0	0	0.000	0.000	0.000
Operating Personnel	0	0	0	0.009	0.000	0.000
Health Physics Personnel	0	0	0	0.007	0.000	0.000
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Engineering Personnel	0	0	0	0.020	0.000	0.000
INSERVICE INSPECTION						
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
SPECIAL MAINTENANCE						
Maintenance Personnel	0	0	0	0.024	0.000	0.000
Operating Personnel	0	0	0	0.027	0.000	0.000
Health Physics Personnel	0	0	0	0.012	0.000	0.000
Supervisory Personnel	0	0	0	0.009	0.000	0.000
Engineering Personnel	0	0	0	0.039	0.000	0.000

APPENDIX A - (cont'd)
2005

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**
WASTE PROCESSING						
Maintenance Personnel	1	0	3	0.143	0.000	5.137
Operating Personnel	1	0	0	0.107	0.000	0.000
Health Physics Personnel	3	0	0	0.568	0.000	0.000
Supervisory Personnel	1	0	0	0.080	0.000	0.000
Engineering Personnel	2	0	0	0.397	0.000	0.149
DEFUELING						
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
TOTAL						
Maintenance Personnel	1	0	3	0.420	0.000	0.005
Operating Personnel	1	0	0	0.390	0.000	0.000
Health Physics Personnel	3	0	0	0.979	0.000	0.000
Supervisory Personnel	1	0	0	0.211	0.000	0.000
Engineering Personnel	2	0	0	0.838	0.000	0.116
GRAND TOTAL	8	0	3	2.838	0.000	5.301

MAXIMUM INDIVIDUAL DOSE DURING CALENDAR YEAR : 1.864 Rem (Contractor – asbestos removal)