



NRC Docket No. 50-409

TO: NRC-WASHINGTON CONTROLLED DISTRIBUTION NO. 53
FROM: LACBWR Plant Manager 3/22/2011
SUBJECT: Changes to LACBWR Controlling Documents

I. The following documents have been revised or issued new.

TECHNICAL SPECIFICATIONS

Amendment No. 71 to Possession-Only License No. DPR-45 for the La Crosse Boiling Water Reactor dated January 25, 2011, in response to DPC's application of December 13, 2005.

This amendment revises the LACBWR Technical Specification (TS), in support of the dry cask storage project at LACBWR.

Instructions

Remove and replace all applicable pages in your Technical Specification binder with the enclosed revised Amendment No. 71 pages. New pages include:

REMOVE

INSERT

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- checkbox The material listed above is transmitted herewith. Please verify receipt of all listed material, destroy superseded material, and sign below to acknowledge receipt.
checkbox The material listed above has been placed in your binder.
checkbox Please review listed material, notify your personnel of changes, and sign below to acknowledge your review and notification of personnel. [To be checked for supervisors for department specific procedures and LACBWR Technical Specifications.]
checkbox The material listed above has been changed. [To be checked for supervisors when materials applicable to other departments are issued to them.]

/S/ _____ DATE _____

Please return this notification to the LACBWR Secretary within ten (10) working days.

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1. DEFINITIONS

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The following terms are defined so that uniform interpretation of these specifications may be achieved. When these terms appear in capitalized type, the following definitions apply in these Technical Specifications.

ACTION

ACTION shall be that part of a specification which prescribes remedial measures required under designated conditions.

CHANNEL CALIBRATION

A CHANNEL CALIBRATION shall be the adjustment, as necessary, of the channel outputs such that it responds with the necessary range and accuracy to known values of the parameter which the channel monitors. The CHANNEL CALIBRATION shall encompass the entire channel including the sensor and the alarm and/or trip functions. The CHANNEL CALIBRATION may be performed by any series of sequential, overlapping or total channel steps such that the entire channel is calibrated.

FUEL HANDLING

FUEL HANDLING shall be the movement of individual spent fuel assemblies within the Reactor Building. Suspension of FUEL HANDLING shall not preclude completion of movement of a spent fuel assembly to a safe, conservative position. FUEL HANDLING, for the purposes of these Technical Specifications, does not include the movement of an NRC-certified spent fuel storage canister, transfer cask, or storage cask containing spent fuel in accordance with the dry cask storage system 10 CFR 72 Certificate of Compliance.

OPERABLE – OPERABILITY

A system, subsystem, train, component or device shall be OPERABLE or have OBERABILITY when it is capable of performing its specified function(s) and when all necessary attendant instrumentation, controls, a normal or an alternate electrical power source, cooling or seal water, lubrication or other auxiliary equipment that are required for the system, subsystem, train, component or device to perform its function(s) are also capable of performing their related support function(s).

2. DESIGN FEATURES

2.1 SITE

EXCLUSION AREA

2.1.1 The exclusion area shall be as described in the Off-Site Dose Calculation Manual.

2.2 FUEL STORAGE WHILE IN THE FUEL ELEMENT STORAGE WELL

CRITICALITY

2.2.1 The spent fuel storage racks are designed with a nominal 7.0 inch center-to-center distance between fuel assemblies in each individual rack assembly, with a boron impregnated poison plate between adjacent storage locations to ensure K_{eff} of ≤ 0.95 when flooded with unborated water.

FUEL RESTRICTIONS

2.2.2 Fuel stored in the storage well is restricted to fuel with stainless steel cladding which has a U-235 loading of ≤ 22.6 grams per axial centimeter of fuel assembly.

DRAINAGE

2.2.3 The Fuel Element Storage Well is designed and shall be maintained to prevent an inadvertent draining of the well below elevation of 679 feet MSL while spent fuel assemblies are in the Fuel Element Storage Well.

CAPACITY

2.2.4 The Fuel Element Storage Well was designed for a storage capacity of no more than 440 fuel assemblies. The maximum number of fuel assemblies stored in the Fuel Element Storage Well is limited to 333 spent fuel assemblies.

4/5. PERFORMANCE REQUIREMENTS

4.1 FUEL STORAGE AND HANDLING

4.1.1 GENERAL FUEL STORAGE AND HANDLING REQUIREMENTS

4.1.1.1 Spent fuel assemblies shall be stored underwater in spent fuel storage racks that are positioned on the bottom of the Fuel Element Storage Well or in an approved dry spent fuel storage cask.

4.1.1.2 During the handling of spent fuel assemblies that have been operated at power levels greater than 1 Mwt, the depth of water in the Fuel Element Storage Well and the contiguous cask pool shall be at least 2 feet above the active fuel, and only one spent fuel assembly will be moved at a time.

4.1.1.3 No object heavier than 25 tons shall be handled over spent fuel assemblies located in the Fuel Element Storage Well or cask pool. Lifting and movement of a fuel-loaded storage canister and transfer cask shall be performed using the single-failure-proof cask handling crane lifting system meeting the guidance in NUREG-0612, Section 5.1.6. Lifting and movement of objects over spent fuel assemblies located in the Fuel Element Storage Well or cask pool shall be performed in accordance with the LACBWR NUREG-0612 commitments and the dedicated project heavy load control plan.

FUEL STORAGE AND HANDLING

4.1.2 FUEL ELEMENT STORAGE WELL AND CASK POOL

LIMITING CONDITION FOR OPERATION

Note

This LCO does not apply to the cask pool if the spent fuel storage canister lid is in place in the canister or if there are no spent fuel assemblies in the cask pool.

The Fuel Element Storage Well (FESW) and cask pool shall meet the following requirements.

- a. The Fuel Element Storage Well and cask pool water level shall be at least 11 feet, 6½ inches above any spent fuel assembly stored in the spent fuel storage racks or in a spent fuel storage canister in the cask pool, and
- b. Water in the storage well and cask pool shall be maintained at a temperature ≤ 150°F.

APPLICABILITY: While spent fuel assemblies are in the FESW or the cask pool.

ACTIONS

- a. With water level less than required by the LCO, take immediate action to restore water level and suspend all operations involving FUEL HANDLING.
- b. With water temperature in the storage well or cask pool above 150°F, take actions to reduce water temperature to ≤ 150°F within 24 hours and suspend all operations involving FUEL HANDLING.

SURVEILLANCE REQUIREMENTS

Note

SR 5.1.2.1 and 5.1.2.2 do not apply to the cask pool if the spent fuel storage canister lid is in place in the canister or if there are no spent fuel assemblies in the cask pool.

5.1.2.1 The Fuel Element Storage Well and cask pool water level and temperature shall be verified at least once per 12 hours.

5.1.2.2 The Fuel Element Storage Well and cask pool water level indication channel shall be calibrated (CHANNEL CALIBRATION) at least once per 18 months.