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W3P90-1531

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QA

January 10, 1991

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Basemat Monitoring Program

Gentlemen:

On April 18, 1990, NRC/NRR representatives met with Waterford 3 personnel to discuss the settlement monitoring, basemat crack monitoring, and ground water monitoring programs. The NRC issued a summary of the meeting to Louisiana Power and Light Company on May 23, 1990. Enclosure 2, Item 1 of the NRC meeting summary requested a specific response to an NRC observation, as follows:

"The concrete slab adjacent to the Nuclear Plant Island Structures (NPIS) appeared to have settled down about 1" to 2" relative to the Turbine Building. The licensee should explain the causes, and consequences, if any, of this relative settlement..."

The Turbine Building floor slab does appear to have settled one to two inches relative to the exterior wall of the Nuclear Plant Island Structure (NPIS). This floor slab is an eight inch reinforced concrete slab on grade designed for a 100 psf live load. This slab was constructed approximately 12 years ago on the NPIS backfill. It is structurally independent of the NPIS and the Turbine Building column foundation. There is a two inch expansion joint between the slab and the NPIS wall, and a one-half inch expansion joint on the Turbine Building column lines and around each Turbine Building column foundation. The expansion joints were installed as part of the original construction to compensate for movement of the structures, and are in satisfactory condition. The slab appears to be in excellent condition with no signs of structural degradation. There is no major plant equipment supported on the Turbine Building floor slab. Due to this type of construction, this amount of slab settlement is not unexpected, and is of no structural or safety significance.

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If you have any questions concerning this matter or require additional information, please contact myself or B. Ronda Loetzerich at (504) 739-6636.

Very truly yours,



RFB/BRL/ssf

cc: Messrs. R.D. Martin, NRC Region IV

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NRC Resident Inspectors Office