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OFFICE OF SECRETARY
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Houston Lighting & Power Company

A250G OFFICE MEMORANDUM

May 19, 1981
ST-HL-19152
SFN: V-0530

To L. R. Jacobl

From M. E. Powell *MSP*

Subject Incident Review Committee (IRC) Meeting Minutes Concerning
Verification of Shielding Analysis Calculations (Item #97);
May 11, 1981
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

The HL&P IRC was convened to evaluate a concern with B&R's position that shielding calculations are not safety related and therefore need not be design verified consistent with the requirements for verification of safety related calculations.

During a recent technical assessment of B&R a concern was identified that B&R performs shielding calculations without design verifying them; this is not consistent with the requirements for verification of safety related calculations. B&R's position is that shielding calculations are not safety related and need not be design verified to the stringent requirements for safety related calculations. In addition, several shielding analyses have been subcontracted by B&R to other vendors and there is no apparent indication that these analyses have been verified.

After reviewing the results of the technical assessment, the HL&P IRC Chairman notified the NRC-Region IV, on the evening of May 8, 1981, that certain shielding calculations affecting safety related considerations may not have been design verified consistent with the requirements for verification of safety related calculations. This item is potentially reportable pursuant to 10CFR50.55(e).

The HL&P IRC was convened on May 11, 1981 to evaluate what was reported on May 8, 1981 and identify the information that would be necessary to prepare the 30-day report as required by 10CFR50.55(e).

HL&P Health Physics personnel identified to the IRC that shielding calculations are usually not identified as being safety related. This is standard engineering practice throughout the nuclear industry. In addition, an ANSI Standard, ANSI N18.2, substantiates that shielding calculations are not identified as being safety related.

The IRC Chairman questioned as to whether or not the calculation that identifies the radiation dose from an accident based condition (LOCA), that the control room operator would experience, should be designated as safety related. HL&P Health Physics personnel responded that in the design of the control room, the primary protection that is provided to the operator for protection against an accident based condition, is the filtration system which provides protection from the airborne radiation dose as a result of a LOCA. Typically, shielding is not the primary contributor.

As a result of the May 11, 1981 IRC meeting, the following action items have been assigned:

- (1) HL&P Health Physics to review ANSI N18.2 to determine/identify the requirements for shielding calculations.

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G PDR

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RUCALA REGULATORY COMMISSION
 STN 50-49601
 In the matter of SWH Applicant
 Intervenor CONF 2 CHY
 Contractor CONF 2 CHY
 Chief CONF 2 CHY
 Relator 1A-13

IDENTIFIED ✓
 RECEIVED ✓
 REJECTED 8/7/85
 DATE 8/7/85
 WITNESS 8/7/85

0044P 131

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OFFICE MEMORANDUM

To

From

Subject

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- (2) HL&P Health Physics to confirm whether or not HL&P is committed to ANSI N18.2
- (3) HL&P Health Physics/B&R Shielding personnel to review shielding criteria for (1) the control room dose, (2) offsite dose and (3) access to areas with equipment that require operator action from outside the control room.
- (4) HL&P Health Physics/B&R Shielding to determine all applicable standards, regulatory guides, etc.
- (5) HL&P Health Physics to contact other A/E's concerning shielding design and whether or not shielding calculations are considered to be safety related.

MEP/par

ATTENDEES: M. E. Powell
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IRC MEETING MINUTES

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