



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

October 25, 1979

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MEMORANDUM FOR: Frank Pagano, Director, Emergency Planning Review
Task Force

FROM: W. L. Axelson, Team Leader, Emergency Planning Review
Task Force

SUBJECT: TRIP REPORT REGARDING SITE REVIEW AT LASALLE STATION
NUCLEAR PLANT FOR IMPROVING EMERGENCY PREPAREDNESS

On October 15-18, Review Team No. 6 conducted a review of the LaSalle Station Emergency Plan (GSEP - Generating Station Emergency Plan) and the LaSalle County Emergency Plan with representatives from the State of Illinois, LaSalle County, and Commonwealth Edison Company (CECO). A site tour was conducted initially, followed by technical meetings with plant management personnel. On October 17, the team met with representatives from the Illinois Emergency Services and Disaster Agency (ESDA), LaSalle County School Board, and Brookfield Township personnel. In addition, regional and county ESDA representatives were present.

In general, the meetings conducted with plant personnel and corporate management went very well. However, the meetings with the State of Illinois ESDA personnel were unproductive. This was in part due to the fact that the State emergency plan was not ready for review.

During the meetings with CECO, all items from the acceptance criteria were discussed in detail. Clear guidance regarding Emergency Action Levels (EAL's) was particularly discussed in detail. CECO stated that this guidance (NUREG-0610) is still open for public comment and will be addressed in their new emergency plan pending final approval from NRC. I suggest that they (as a minimum) address the General and Site emergency classification now, because these classifications will probably not change. They agreed to do this.

The following deficiencies were identified during our review:

1. In general, the facility plan (GSEP) does not satisfy Regulatory Guide 1.101, especially in the area of the new uniform action level criteria based on plan parameters. The licensee agreed to develop tables indicating plan parameters (real time) which would be used to classify a Site or General emergency. These parameters will include the new high range containment monitors and gaseous effluent stack monitors as per NUREG-0578.

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2. The licensee has tentatively selected a location for the onsite technical support center and operational support center. However, habitability studies for the onsite technical center have not been done. The licensee stated (based on the latest generic meeting on this subject) that a study would be conducted for habitability based on existing DBAs except earthquake and tornado. Additionally, they stated that as more guidance regarding real time instrumentation is developed, then construction of the technical center would not pose a major problem. I stated that as a minimum, real time meteorology and final stack effluent instrumentation would be necessary in order for the technical center to be used for offsite dose assessments. They agreed and stated that these instruments would be displayed in the technical center. The onsite technical support center will be (tentatively) located in the service building mezzanine and the onsite operational support group center will be located in the lunch room adjacent to the shift supervisor's office.
3. The licensee's plant currently does not provide high range instrumentation for containment monitoring or stack effluent monitoring as per NUREG-0578. Currently, the licensee feels they can develop procedures to sample these locations to determine the concentrations of radioactivity. However, they do not believe that real time instrumentation with the range requirements of NUREG-0578 is feasible at this time. Consequently, I asked them to tell us what they feel are feasible ranges for these instruments, i.e., 10^6 rads/hr instead of 10^8 rads/hr. They agreed to do this using the criteria of a General emergency as per NUREG-0610 (10% fuel melt down).
4. The licensee does not provide means for sampling reactor coolant or containment atmosphere as per NUREG-0578 without exceeding occupational dose limits. This may be a major problem for this plant because all reactor coolant samples are collected at a central sampling station located in the reactor building. This building would be uninhabitable after an accident involving failed fuel. Consequently, CECO is conducting a study to provide an alternate sampling location. They currently feel that this may be the most difficult problem to resolve.
5. The licensee has tentatively established a location for an offsite EOC for Federal, State and local officials. However, the State of Illinois is also establishing a local EOC which they believe to be the center where the State, County, and Federal response will congregate. Accordingly, CECO agreed to resolve this item with the State of Illinois. If Illinois wants to keep their local EOC, then CECO stated that they would develop a near-site EOC for relocating their command center. This command center is currently located in Chicago. Further, they agreed to develop, in block diagram form, the locations of these EOCs with a listing of the communications and instrumentation available.

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6. The licensee has begun work on improving the offsite environmental monitoring program. However, they are not (at this time) how many TLD rings will be needed. They agreed to provide TLDs for each sector of a 16 sector circle as per the NRP Branch Technical Position.
7. The GSEP generic plan concept will be able to provide the site specific information needed to provide reasonable assurance that the emergency plan meets the new NRC acceptance criteria. The licensee reluctantly agreed with this statement and agreed to provide a site specific annex for the LaSalle nuclear station. As a minimum, this annex will address the following items:
 - a. Normal Plant Organization, including day and night crews.
 - b. Onsite emergency organizations with special attention to the onsite health physics organization for all shifts.
 - c. Plant Staff Assignment as per RG 1.101, i.e., operations, radiation survey and monitoring, shift technical advisor, communicators, and security.
 - d. Site map indicating site evacuation routes, site personnel relocation and accountability, and monitoring of site evacuees.
 - e. Roadway/traffic control measures of roads under the control of the licensee.
 - f. Onsite communications system (block diagram) to State, local and offsite EOC, onsite technical support center and onsite support group center.
 - g. Indicate the onsite dedicated communication to be established and maintained during the emergency.
 - h. Asbuilt diagram indicating types of instrumentation and emergency equipment at the onsite technical support and operational support group centers and the offsite EOC.
 - i. Location of offsite fixed radiation environmental monitors, including the new rings of TLDs.
 - j. Tables of EALs as per NUREG-0610.
 - k. List of onsite available emergency equipment used to monitor offsite releases.
 - l. List of site emergency procedures that will be used to implement this plan as per RG 1.101, Annex B.

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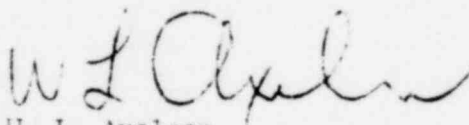
LaSalle County Plan

The existing LaSalle County Plan was reviewed against the current criteria. Currently, the State of Illinois plans to develop their own local plan for LaSalle County. Therefore, it would not be prudent to list any deficiencies at this time. The State of Illinois agreed to use the information in the current LaSalle County plan for developing a new local plan.

State of Illinois Plan

The State of Illinois plan was not reviewed at this time. Mr. E. Erie Jones, Director, Illinois ESDA indicated that the plan is currently being developed and should be ready (in draft) for the Governor's staff by December 31, 1979. The State plan will include the local plans for Zion, Dresden and Quad Cities. However, the LaSalle County plan will not be ready at that time. Mr. Jones agreed to begin work on the LaSalle local plan some time after the first of the year (1980). Further, Mr. Jones indicated that approval of the local plan by June 1980 (proposed license date for the LaSalle plant) may be difficult, but that his staff would do what they could in order to make this date. The licensee agreed to help the State regarding this matter.

In general, the LaSalle Station emergency plan needs improvement in order to meet the acceptance criteria. The station plan revisions to meet RG 1.10' and other acceptance criteria should not be a problem. A considerable delay in developing the State and local plans will probably cause slippage in the NRC review of these plans.



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