

Docket Nos.: STN 50-454  
and STN 50-455

NOV 7 1983

APPLICANT: Commonwealth Edison Company  
FACILITY: BYRON STATION, UNITS 1 and 2  
SUBJECT: SUMMARY OF MEETING ON BYRON FIRE PROTECTION PROGRAM

On October 28, 1983, the NRC staff met with Commonwealth Edison (CECO) and Sargent & Lundy (S&L) to discuss the Byron Fire Protection Program. Enclosure 1 is a list of the meeting attendees.

During July 1983 the NRC and its consultant conducted its Fire Protection Site Audit of Byron and documented its findings in an August 3, 1983 letter to CECO. The CECO response, dated September 20, 1983, did not satisfactorily address the staff's concerns in several instances. In conference calls of September 27, 1983 and October 21, 1983, CECO committed to alter its response in many areas. CECO agreed to make several plant modifications, including installation of a reactor coolant pump oil collection system which complies with Section III.0 of Appendix R, installation of curbs in the diesel-generator rooms, and installation of 8-hour battery powered emergency lighting in the Essential Safety Features Switchgear Room. Pending receipt of a CECO letter documenting its commitments, all but two concerns are considered resolved.

The primary purpose of the meeting was to discuss the two unresolved concerns: unprotected structural steel (Concern No. 8 in the staff's August 3, 1983 letter) and separation of redundant trains of shutdown related cabling and equipment (Concern No. 18). Among its arguments for the unprotected structural steel, CECO cited the low combustible loadings in the areas, the administrative controls over transient combustibles, the conductive heat transfer properties of the steel which tend to distribute the heat, and the unlikelihood of the steel reaching a sufficient temperature, for a sufficient time, to collapse. CECO's arguments in defending its existing configuration of separation of redundant safe shutdown cabling and equipment included: (1) available test data on the combustibility of cables do not apply to the Byron design because most of propagation in the tests was in the vertical direction and the Byron configuration would require mostly horizontal propagation; (2) Byron has EPR hyperlon cabling and solid bottom trays, (3) CECO believes it has instituted effective administrative controls over transient combustibles.

The NRC staff did not accept CECO's arguments and urged CECO to implement modifications to satisfy the staff's concerns. The staff re-emphasized that resolution of their concerns regarding the protection of safe shutdown systems

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would entail installing automatic fire protection systems and/or providing 1 hour fire rated barriers around one shutdown division. Those instances where the specific requirement of Section III.G.2 of Appendix are not met CECO would have to provide a detailed description of the deviation.

The applicant is considering either appealing to higher management or proposing, and implementing fire protection modifications that are acceptable to the staff. However, the staff indicated that it could issue a license for fuel load without the modifications being completed if CECO would provide adequate justification for this approach, but it is unlikely that the plant would be allowed to go above 5% power with the current configuration.

Original Signed By:  
L. N. Olshan

L. Olshan, Project Manager  
Licensing Branch No. 1  
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Enclosure:  
As stated

cc: See next page

CONCURRENCES:  
DL:LB#1  
LOlshan:es  
11/04/83

*DL*  
DL:LB#1  
BYoungblood  
11/7/83

ENCLOSURE 1

FIRE PROTECTION MEETING

OCTOBER 28, 1983

MEETING ATTENDEES

Commonwealth Edison

K. A. Ainger  
T. R. Tramm  
J. T. Westermeier

Sargent & Lundy

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L. Cypranowski  
K. J. Green  
W. B. Paschal  
J. D. Regan

NRC

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R. L. Ferguson  
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R. Barnes

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MEETING SUMMARY

Document Control (STN 50-454, STN 50-455)  
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NSIC

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W. Lovelace\*  
OPA\*

NRC PARTICIPANTS:

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OTHERS:

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