



Commonwealth Edison

One First National Plaza, Chicago, Illinois

Address Reply to: Post Office Box 767

Chicago, Illinois 60690 - 0767

August 25, 1988

Mr. Thomas E. Murley, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Quad Cities Station Units 1 and 2
"Information Pertaining to Encapsulation
of Chemical Decontamination Waste Liner"
NRC Docket Nos. 50-254 and 50-265

Reference (a): Letter from I.M. Johnson to T.E. Murley
dated August 15, 1988.

Dear Mr. Murley:

Reference (a) transmitted information to your staff regarding the recent efforts to solidify a liner filled with decontamination solution (LOMI) at the Quad Cities Station which prematurely solidified. We transmitted to your staff, for their information, a copy of Revision 6 to the Quad Cities Station Process Control Program (PCP) for processing of radioactive wet waste dated July 1988. This revision to the PCP described the encapsulation method to be used to dispose of the affected liner. The purpose of this letter is to describe our revised plan for the treatment of this liner, as well as a discussion as to why these revisions were necessary. This subject was discussed with Mr. B. Siegel (NRR) in an August 18, 1988 telephone call.

The 14-170 liner of bed resin with LOMI decon solution has been safely stored at Quad Cities Station in a Chem Nuclear System (CNS) 21-300 cask with additional shielding. In preparation for encapsulation and transport, to the burial site, the 14-170 liner was transferred into an encapsulation liner inside the cask to be used for transport. Upon completion of this transfer, additional precautionary direct radiation surveys were made. The surveys showed that, in order to meet the dose rate restrictions for the cask, Department of Transportation (DOT) limits for weight restrictions would be exceeded. As a result, it was determined that the LOMI liner could not be transported offsite if the encapsulation were to take place at the station. There is no licensed cask capable of transporting the liner, after

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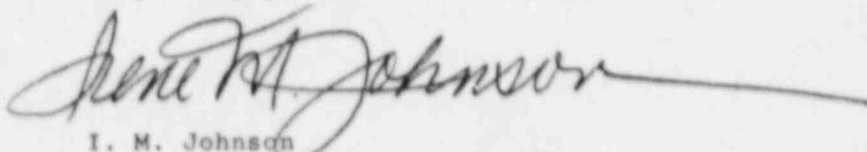
encapsulation, due to the liner size and dose rates. However, the 14-170 liner can be properly transported in the CNS 14-190H cask to the burial site where the encapsulation can be performed.

Commonwealth Edison has modified its plans as were described in earlier conversations and in Reference (a) as a result of this determination. The transfer of a LOMI liner into a 14-190H Chem Nuclear Cask was performed on August 22, 1988. We are currently in the process of transporting the cask to the Barnwell Burial Facility where encapsulation is expected to take place later in the week in a burial trench. Encapsulation will be performed by Chem Nuclear and be observed by Commonwealth Edison personnel. The PCP revision, which was transmitted to your staff earlier, is still applicable to this process although the encapsulation itself will now be taking place at the Barnwell Facility. Upon completion of the encapsulation, we anticipate that the liner will satisfy the stability criteria of 10 CFR 61 and meet the requirements delineated in the State of South Carolina Department of Health and Environmental Control (DHEC) license issued for the Barnwell Facility.

This matter has been discussed between Chem Nuclear and South Carolina DHEC officials and has been approved by DHEC.

Please direct any questions you may have regarding this matter to this office.

Very truly yours,



I. M. Johnson
Nuclear Licensing Administrator

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cc: Quad Cities Resident Inspector
B. Siegel/T. Ross - NRR