

June 12, 1981

Docket No. 50-213
LS05-81-06-048



Mr. W. G. Council, Vice President
Nuclear Engineering and Operations
Connecticut Yankee Atomic Power Co.
Post Office Box 270
Hartford, Connecticut 06101

Dear Mr. Council:

SUBJECT: SEP TOPICS VII-1.A, ISOLATION OF REACTOR PROTECTION SYSTEM FROM NON-SAFETY SYSTEMS, INCLUDING QUALIFICATION OF ISOLATION DEVICES AND VII-2, ENGINEERED SAFETY FEATURES (ESF) SYSTEM CONTROL LOGIC AND DESIGN - REQUEST FOR ADDITIONAL INFORMATION (HADDAM NECK)

The enclosed request for additional information has been prepared as part of our evaluation of the subject matters at Haddam Neck.

Because these concerns are parts of SEP Topics, response within 30 days is requested so that we maintain the present SEP review schedule.

Sincerely,

Dennis M. Crutchfield, Chief
Operating Reactors Branch No. 5
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

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OFFICE	SEPB:DC	SEPB:DL	SEPB:DL	ORB#5:DL:PM	ORB#5:DL:C	AD:SA:DL
NAME	Scholl:dk	RHermann	WRussell	WPaulson	DCrutchfield	GLainas
DATE	6/7/81	6/9/81	6/10/81	6/10/81	6/11/81	6/11/81



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

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See next page

Mr. W. G. Council

cc

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Connecticut Energy Agency
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Department of Planning and
Energy Policy
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Hartford, Connecticut 06106

Director, Criteria and Standards
Division,
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Agency
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U. S. Environmental Protection
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Resident Inspector
Haddam Neck Nuclear Power Station
c/o U. S. NRC
East Haddam Post Office
East Haddam, Connecticut 06423

REQUEST FOR ADDITIONAL INFORMATION
ON HADDAM NECK FOR SEP TOPICS VII-1.A AND VII-2

ISOLATION OF REACTOR PROTECTION AND ENGINEERED SAFETY SYSTEMS

The FDSAR and available drawings do not contain sufficient information for us to adequately review the degree of isolation between the Reactor Trip and ESF systems from control and non-safety systems. Therefore please provide the following additional information and drawings:

1. Current schematics or elementary diagrams of the Reactor Trip System and the ESF Systems and their interface with Shared Control Systems.
2. P&ID's of the ESF systems.
3. Identify by make and model the isolation buffers installed in the Nuclear Power Range channels to obtain isolated indication of the detector ion currents. (Plant Design Change #198.) Describe how they meet the requirements of IEEE Standard 279-1971 Sect. 4.7.2 and GDC 24.
4. Identify locations and describe any other isolation buffers currently in use in the reactor trip and ESF systems to isolate these systems from control, computer, recorders and non-safety systems. Describe how they comply with the requirements of IEEE Standard 279 and GDC 24.