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New York Power Authority

J. Phillip Bayne
Executive Vice President
Nuclear Generation

March 6, 1984
IPN-84-08

Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing

Subject: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
Indian Point 3 (IP-3) Systems Interaction (SI) Study

Reference: Letter from J. P. Bayne to S. A. Varga dated November 30, 1983 (IPN-83-95: "Indian Point 3 Systems Interaction Study")

Dear Sir:

This letter serves to provide an updated status of the information relative to the IP-3 SI Study that was submitted in the referenced letter and reflects the ongoing nature of the Authority efforts to close the 643 interactions identified by EBASCO as requiring Authority resolution. As indicated in the referenced letter, these 643 interactions were comprised of 20 connected, 620 non-connected, and 3 area-specific interactions in addition to the separately documented interactions that were identified as part of the central control room (CCR) review. As of November 30, 1983, the Authority had closed 18 of the 20 connected and 267 of the 620 nonconnected interactions as indicated in Tables 3 and 4 of the referenced letter.

Since November 30, 1983, the Authority has been working towards resolving the remaining open interactions. To this extent, the Authority has closed an additional 154 interactions bringing the total number closed to 439 of the original 643 interactions. In addition, the concerns identified as part of the CCR review have been resolved.

Tables 1 ("Interaction-Specific Summary/Status as of March 6 , 1984") and 2 ("System-Specific Summary/Status of Interaction Resolutions as of March 6 , 1984") of this letter provide summary resolution information with respect to the 439

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interactions that have been closed to date by the Authority. As indicated in these tables, all of the 20 connected, 417 of the 620 nonconnected, and 2 of the 3 area-specific interactions have been closed and comprise the total of 439 interactions cited above.

With respect to the remaining open interactions, the Authority has provided for a review and walkdown of these interactions independent of the SI Task Force activities. The preliminary findings of these efforts indicate that these interactions are not of a significant nature. However, the Authority will evaluate the final results of these efforts to determine whether modifications are required to close these interactions.

The Authority is looking forward to meeting with members of your staff to discuss these resolution efforts and will periodically provide an updated status of these efforts to keep you informed.

Should you or your staff have any questions regarding this matter, please contact Mr. P. Kokolakis of my staff.

Very truly yours,

J. P. Bayne
Executive Vice President
Nuclear Generation

cc: Resident Inspector's Office
Indian Point Unit 3
U. S. Nuclear Regulatory Commission
P. O. Box 66
Buchanan, New York, 10511

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 1 Rod Control

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-1-33-1					X	X	X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 2 Safety Injection

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-2-310-1		X						
E-2-316-1		X						
E-2-319-2							X	
E-2-398-1		X						
E-2-399-1		X						
E-2-400-1		X						
E-2-401-1		X						
E-2-402-1		X						
I-2-33-2							X	
I-2-33-3							X	
I-2-34-2							X	
I-2-34-3							X	
I-2-45-2					X		X	
I-2-47-1					X		X	
I-2-48-2					X		X	
I-2-53-3							X	
I-2-54-3							X	
I-2-56-4						X		
I-2-57-2							X	
I-2-57-4						X		
I-2-59-4						X		
I-2-60-4						X		
I-2-65-6						X		
I-2-73-1							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 2 Safety Injection

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-2-75-1							X	
I-2-75-2							X	
I-2-78-1		X						
L-2-7-7							X	
L-2-19-6							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 3 Chemical Vol Cntl

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-3-153-2							X	
E-3-193-1							X	
E-3-194-1							X	
E-3-195-1							X	
E-3-232-3						X		
E-3-233-3						X		
E-3-234-3						X		
I-3-8-2							X	
I-3-10-3							X	
I-3-18-4		X						
I-3-18-7							X	
I-3-62-3					X			
I-3-63-3					X			
L-3-177-6							X	
L-3-179-4							X	
L-3-179-6							X	
L-3-181-4							X	
L-3-181-6							X	
L-3-182-4							X	
L-3-182-6							X	
L-3-183-4							X	
L-3-183-6							X	
L-3-186-6							X	
L-3-187-6							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1934

SYSTEM 3 Chemical Vol Cntl

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-3-188-6							X	
L-3-189-6							X	
L-3-190-5							X	
L-3-200-15		X						
V-3-287-3							X	
V-3-287-5							X	
V-3-288-5							X	
V-3-321-4							X	
V-3-321-6							X	
V-3-323-4							X	
V-3-323-6							X	
V-3-326-4							X	
V-3-326-6							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 4 Residual Ht Reml

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-4-13-2		X						
E-4-16-3						X		
E-4-31-1		X						
E-4-32-1		X						
E-4-43-2						X		
E-4-44-2						X		
E-4-114-1				X				
E-4-115-1				X				
E-4-124-3				X				
E-4-124-4				X				
E-4-125-3				X				
E-4-125-4				X				
E-4-125-6		X						
I-4-8-1		X						
I-4-14-2					X		X	
I-4-15-2					X		X	
I-4-16-2					X		X	
I-4-22-2					X		X	
I-4-23-2					X		X	
I-4-24-2					X		X	
L-4-47-1							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 5 Reactor Coolant

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-5-96-3				X				
I-5-20-2							X	
I-5-21-2							X	
I-5-22-2							X	
I-5-25-1		X						
I-5-27-1							X	
I-5-29-1							X	
I-5-33-1							X	
I-5-34-1							X	
I-5-35-1							X	
I-5-41-5		X						
I-5-49-1		X						
I-5-50-1		X						
I-5-51-1		X						
I-5-83-1				X				
I-5-83-2					X		X	
I-5-89-1							X	
I-5-90-1							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 7 Control RH Vent

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-7-2-5		X						
E-7-3-5		X						
E-7-6-5		X						
E-7-7-3		X						
E-7-7-5		X						
E-7-13-2		X						
E-7-14-2		X						
E-7-14-4		X						
E-7-16-2		X						
E-7-17-2		X						
E-7-36-1		X						
E-7-50-2		X						
E-7-51-2		X						
E-7-52-2		X						
E-7-53-2		X						
E-7-54-2		X						
I-7-3-1		X						
L-7-4-7		X						
L-7-5-7		X						
L-7-6-7		X						
L-7-7-1		X						
L-7-7-3		X						
L-7-7-7		X						
L-7-8-1		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 7 Control RH Vent

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-7-8-2		X						
L-7-8-3		X						
L-7-13-1		X						
L-7-14-1		X						
L-7-14-2		X						
L-7-15-1		X						
L-7-15-2		X						
V-7-4-1		X						
V-7-4-3		X						
V-7-5-2		X						
V-7-5-3		X						
V-7-8-5		X						
V-7-9-5		X						
V-7-10-5		X						
V-7-11-5		X						
V-7-13-1		X						
V-7-13-2		X						
V-7-14-2		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-8-1-1					X			
E-8-2-1					X			
E-8-6-1					X			
E-8-7-1					X			
E-8-11-1					X			
E-8-12-1					X			
E-8-16-1					X			
E-8-17-1					X			
E-8-21-1					X			
E-8-22-1					X			
E-8-26-1					X			
E-8-27-1					X			
E-8-31-2					X			
E-8-53-2						X		
E-8-53-3						X	X	
E-8-54-2						X		
E-8-54-3						X	X	
E-8-55-2						X		
E-8-55-3						X	X	
E-8-56-4						X		
E-8-57-4						X		
E-8-76-1						X		
E-8-77-1						X		
E-8-78-1						X		

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1934

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-8-79-1						X		
E-8-80-1						X		
E-8-81-1						X		
E-8-82-1						X		
E-8-83-1						X		
E-8-84-1						X		
E-8-85-1						X		
E-8-86-1						X		
E-8-87-1						X		
E-8-88-1						X		
E-8-89-1						X		
E-8-90-1						X		
E-8-91-1						X		
E-8-92-1						X		
E-8-93-1						X		
E-8-94-1						X		
E-8-95-1						X		
E-8-96-1						X		
E-8-97-1						X		
E-8-98-1						X		
E-8-99-1						X		
E-8-100-1						X		
E-8-101-1						X		
E-8-102-1						X		

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-8-103-1						X		
E-8-104-1						X		
E-8-105-1						X		
E-8-106-1						X		
E-8-107-1						X		
E-8-108-1						X		
E-8-109-1						X		
E-8-110-1						X		
E-8-111-1						X		
E-8-112-1						X		
E-8-113-1						X		
E-8-114-1						X		
I-8-30-2							X	
I-8-31-2							X	
I-8-36-2		X						
I-8-36-3		X						
I-8-36-4		X						
I-8-37-2		X						
I-8-37-3		X						
I-8-37-4		X						
I-8-38-2		X						
I-8-38-3		X						
I-8-38-4		X						
I-8-39-2		X						

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-8-39-3		X						
I-8-39-4		X						
I-8-40-2		X						
I-8-40-3		X						
I-8-40-4		X						
I-8-90-4							X	
I-8-92-4							X	
I-8-93-4							X	
I-8-94-4							X	
I-8-95-1							X	
I-8-95-3		X						
I-8-96-1							X	
I-8-96-3		X						
I-8-97-1							X	
I-8-97-3		X						
I-8-98-1							X	
I-8-98-3		X						
I-8-99-1							X	
I-8-99-3		X						
I-8-100-1							X	
I-8-100-3		X						
I-8-101-1							X	
I-8-101-3		X						
I-8-102-1							X	

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-8-102-3		X						
I-8-103-1							X	
I-8-103-3		X						
I-8-104-1							X	
I-8-104-3		X						
I-8-107-1						X		
I-8-108-1						X		
I-8-109-1						X		
I-8-110-1						X		
I-8-111-1						X		
I-8-112-1						X		
I-8-113-1						X		
I-8-114-1						X		
I-8-115-1						X		
I-8-116-1						X		
I-8-117-1						X		
I-8-118-1						X		
I-8-119-3						X	X	
I-8-119-4						X	X	
I-8-120-1						X	X	
I-8-120-2						X	X	
L-8-227-1		X						
L-8-228-1		X						
L-8-229-1		X						

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-8-230-1		X						
L-8-231-1		X						
L-8-232-1		X						
V-8-156-1		X						
V-8-158-1		X						
V-8-160-1		X						
V-8-164-1		X						
V-8-166-1		X						
V-8-167-1							X	
V-8-167-2							X	
V-8-167-6							X	
V-8-168-1							X	
V-8-168-2							X	
V-8-168-6							X	
V-8-169-1							X	
V-8-169-2							X	
V-8-169-6							X	
V-8-170-1							X	
V-8-170-2							X	
V-8-170-6							X	
V-8-171-1							X	
V-8-171-2							X	
V-8-171-6							X	
V-8-172-1							X	

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 8 Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
V-8-172-2							X	
V-8-172-6							X	
V-8-198-1							X	
V-8-200-1							X	
V-8-202-1							X	
V-8-207-1							X	
V-8-209-1							X	
V-8-211-1							X	
V-8-216-1							X	
V-8-218-1							X	
V-8-221-1							X	

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 9 Component Cooling

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-9-12-1		X						
E-9-81-2		X						
E-9-82-2		X						
E-9-83-2		X						
E-9-84-2		X						
E-9-110-2		X						
I-9-11-1		X						
I-9-12-1		X						
I-9-26-2							X	
I-9-27-2							X	
I-9-38-1					X		X	
I-9-45-1							X	
I-9-46-1							X	
I-9-76-1		X						
I-9-76-2		X						
I-9-76-3							X	
I-9-77-3							X	
I-9-78-4		X						
I-9-79-3					X		X	
I-9-90-1					X		X	
I-9-95-1						X		
L-9-5-3		X						
L-9-8-3		X						
L-9-13-5							X	

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 9 Component Cooling

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-9-16-6		X						
L-9-22-6		X						
L-9-24-6							X	
L-9-27-6		X						
L-9-31-1		X						
L-9-32-1		X						
L-9-116-4		X						
L-9-125-2							X	
L-9-126-2							X	
L-9-127-2							X	
L-9-128-2							X	
L-9-129-2							X	
L-9-130-2							X	
L-9-170-3		X						
L-9-171-3		X						
L-9-217-3		X						
L-9-229-2				X				
L-9-252-5		X						
L-9-253-5		X						
L-9-262-1		X						
L-9-263-1		X						
L-9-277-1		X						
L-9-297-1						X		
L-9-297-2						X		

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 9 Component Cooling

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-9-298-1						X		
L-9-298-2						X		
L-9-299-3						X		
L-9-299-4						X		
L-9-300-3						X		
L-9-300-4						X		
L-9-304-1						X		
L-9-304-2						X		
L-9-305-1						X		
L-9-305-2						X		
L-9-305-3						X		
L-9-305-4						X		
L-9-306-1						X		
L-9-306-2						X		
L-9-306-3						X		
L-9-306-4						X		
L-9-309-1		X						
L-9-310-1		X						
L-9-311-1		X						
L-9-312-1		X						
L-9-313-1		X						
L-9-314-1		X						
L-9-315-1		X						
L-9-316-1		X						

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 9 Component Cooling

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-9-317-1		X						
L-9-318-1		X						
L-9-319-1		X						
L-9-320-1		X						
V-9-155-4				X				
V-9-156-4				X				
V-9-268-3		X						
V-9-269-3		X						
V-9-285-1				X				
V-9-286-1				X				
V-9-391-1		X						
V-9-392-1		X						
V-9-393-1		X						
V-9-394-1		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 10 Nitrogen Backup

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-10-2-1							X	
I-10-2-2							X	
I-10-3-1							X	
I-10-3-2							X	
I-10-4-1							X	
I-10-4-2							X	
I-10-5-1							X	
I-10-5-2							X	
I-10-6-1							X	
I-10-6-2							X	
I-10-7-1							X	
I-10-7-2							X	
I-10-8-1							X	
I-10-8-2							X	
I-10-9-1							X	
I-10-9-2							X	
I-10-10-1							X	
I-10-10-2							X	
I-10-11-1							X	
I-10-11-2							X	
I-10-15-6							X	
I-10-15-7					X		X	
I-10-15-8					X		X	
I-10-15-9							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 10 Nitrogen Backup

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-10-19-4							X	
I-10-19-5							X	
I-10-20-2							X	
I-10-20-3							X	
I-10-21-1							X	
I-10-24-3		X						
I-10-24-4		X						
I-10-24-6					X		X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 11 Diesel Generator

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-11-33-2							X	
E-11-59-1							X	
E-11-71-1							X	
E-11-73-1							X	
E-11-78-1							X	
E-11-80-1							X	
E-11-148-1							X	
E-11-253A-1							X	
I-11-12-1							X	
I-11-47-1							X	
I-11-82-1							X	
L-11-5-5							X	
L-11-6-5							X	
L-11-17-1							X	
L-11-19-1							X	
L-11-20-1							X	
L-11-32-1							X	
L-11-33-1							X	
L-11-48-1							X	
L-11-50-1							X	
L-11-51-1							X	
L-11-73-2							X	
L-11-78-1							X	
L-11-79-1							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 11 Diesel Generator

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-11-80-1							X	
V-11-5-1							X	
V-11-5-2							X	
V-11-5-3							X	
V-11-5-4		X						
V-11-45-1							X	
V-11-45-2		X						
V-11-45-3							X	
V-11-45-4							X	
V-11-84-1							X	
V-11-84-2							X	
V-11-84-3		X						
V-11-84-4							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 12 DC Power

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-12-1-1							X	
E-12-1-2							X	
E-12-1-4							X	
E-12-6-1							X	
E-12-6-2							X	
E-12-7-1							X	
E-12-7-2							X	
E-12-7-4							X	
E-12-7-5							X	
E-12-11-1							X	
E-12-11-5							X	

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 13 Cont Isolation

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-13-13-2		X						
L-13-13-3		X						
L-13-17-2		X						
L-13-17-3		X						
L-13-29-1				X				
L-13-53-4		X						
V-13-24-1		X						
V-13-24-2		X						
V-13-83-4		X						
V-13-84-4		X						

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 14 Main Steam

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-14-14-1				X				
E-14-15-1				X				
E-14-16-1				X				
E-14-16-2				X				
E-14-17-1				X				
E-14-17-2				X				
E-14-18-1				X				
E-14-19-1				X				
I-14-14-1						X		
I-14-15-1						X		
I-14-40-1						X		
I-14-41-1						X		
I-14-57-3						X		
I-14-57-4						X		
I-14-58-3						X		
I-14-58-4						X		
I-14-59-3						X		
I-14-59-4						X		
I-14-60-3						X		
I-14-60-4						X		
I-14-61-1						X		
I-14-61-4						X		
I-14-62-1						X		
I-14-62-4						X		

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 14 Main Steam

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-14-63-1						X		
I-14-63-4						X		
I-14-64-1						X		
I-14-64-4						X		
I-14-65-1						X		
I-14-65-2						X		
I-14-66-1						X		
I-14-66-2						X		
I-14-67-1						X		
I-14-67-2						X		
I-14-68-1						X		
I-14-68-2						X		
I-14-81-1				X				
I-14-82-1				X				
V-14-4-1				X				
V-14-5-1				X				

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 16 Hydrogen Recombiner

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-16-17-2							X	
I-16-35-2					X			
I-16-35-4							X	
I-16-36-3							X	
I-16-37-1							X	
I-16-37-3		X						
I-16-37-8					X			
I-16-39-1							X	
I-16-39-3		X						
I-16-39-8					X			
I-16-41-11							X	
I-16-44-11							X	
I-16-45-11							X	
I-16-51-2		X						
I-16-52-1							X	
I-16-52-2							X	
I-16-52-4						X		
I-16-52-5						X		
L-16-1-1					X		X	
L-16-1-2					X			
L-16-21-2					X			
L-16-32-2		X						
L-16-33-2		X						
L-16-34-1		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 16 Hydrogen Recombiner

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
L-16-35-1		X						
L-16-39-4		X						
L-16-41-4		X						
V-16-107-1		X						
V-16-108-2		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 17 Reactor Protection

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-17-96-1						X		
E-17-97-1						X		
E-17-98-1						X		
E-17-99-1						X		
E-17-100-1						X		
E-17-101-1						X		
E-17-102-1						X		
E-17-103-1						X		
E-17-104-1						X		
E-17-105-1						X		
I-17-31-1							X	
I-17-34-1							X	
I-17-47-3		X						
I-17-47-4		X						
I-17-48-3		X						
I-17-48-4		X						
I-17-49-3		X						
I-17-49-4		X						
I-17-50-3		X						
I-17-50-4		X						
I-17-51-3		X						
I-17-51-4		X						
I-17-52-3		X						
I-17-52-4		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 17 Reactor Protection

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-17-53-3		X						
I-17-53-4		X						
I-17-54-3		X						
I-17-54-4		X						
I-17-55-3		X						
I-17-55-4		X						
I-17-56-3		X						
I-17-56-4		X						
I-17-57-3		X						
I-17-57-4		X						
I-17-58-3		X						
I-17-58-4		X						

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS

AS OF MARCH 6, 1984

SYSTEM 18 Electric Trays

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-18-36-1					X		X	
E-18-37-1					X		X	
E-18-39-1					X		X	
E-18-40-1					X		X	
E-18-43-1					X		X	
E-18-53-1					X		X	
E-18-54-1					X		X	
E-18-102-3					X		X	
E-18-103-3					X		X	
E-18-108-1					X		X	
E-18-125-5		X						
E-18-125-6		X						
E-18-125-8		X						
E-18-144-1		X						
E-18-144-2		X						
E-18-145-1		X						
E-18-145-2		X						
E-18-149-2					X			
E-18-149-3					X		X	
E-18-150-2					X			
E-18-151-2					X			
E-18-152-2					X			
E-18-153-2					X			
E-18-154-2					X			

TABLE 1

INTERACTION - SPECIFIC SUMMARY STATUS
AS OF MARCH 6, 1984

SYSTEM 18 Electric Trays

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
E-18-160-1					X		X	
E-18-178-1					X		X	
E-18-180-1					X		X	
E-18-184-2		X						
E-18-341-2							X	
E-18-353-3							X	
E-18-355-1							X	

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 21 Containment Recirc

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
V-21-3-2		X						
V-21-3-3		X						

NONCONNECTED

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM 23 Auxiliary Feedwater

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
I-23-31-11							X	
I-23-32-11							X	
L-23-63-1		X						

TABLE 1

CONNECTED - PHYSICAL PROCESS

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM Safety Injection

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
2-M-4								X
(constitutes four interactions)								

TABLE 1

CONNECTED - PHYSICAL PROCESS

INTERACTION - SPECIFIC SUMMARY/STATUS AS OF MARCH 6, 1984

SYSTEM Chemical and Volume Control

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
3-M-4								X

TABLE 1

CONNECTED - PHYSICAL PROCESS

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM Service Water

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
8-M-2						X		
8-M-3						X		
8-M-4						X		
8-M-5				X				
8-M-6				X				

INDUCED
OPERATOR
ERROR

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM Reactor Coolant

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
IOEA NO. 5-5						X		
IOEA NO. 5-32						X		
IOEA NO. 5-41						X		
IOEA No. 5-42						X		
IOEA No. 5-46						X		
IOEA No. 5-54						X		
IOEA No. 5-55						X		
IOEA No. 5-56						X		
IOEA No. 5-57						X		

INDUCED OPERATOR ERROR

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM Nitrogen Backup

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
IOEA No. 10-1						X		

TABLE 1

AREA - SPECIFIC

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
SI's induced by internally							X	
generated missiles & pipe whip								
SI's induced by environment within	X							
class I structures								
SI's induced by the effects of				X				
internally generated floods								

CENTRAL CONTROL
ROOM REVIEW

TABLE 1

INTERACTION - SPECIFIC SUMMARY/STATUS
AS OF MARCH 6, 1984

SYSTEM

INTERACTION NUMBER	IF OPEN (PLAN OF ACTION/RESOLUTION)			IF CLOSED (METHOD OF CLOSURE)				
	ANALYSIS	PHYS. MOD/TEST	PROCEDURAL CHANGE	ANALYSIS	WALKDOWN	REVIEW	PHYS. MOD/TEST	PROCEDURAL CHANGE
Miscellaneous					X			X

TABLE 2

SYSTEM - SPECIFIC SUMMARY/STATUS OF INTERACTION RESOLUTIONS AS OF MARCH , 1984

	System	NO. OF INTERACTIONS REQUIRING AUTHORITY RESOLUTION	NUMBER CLOSED BY AUTHORITY	NUMBER REMAINING OPEN
NONCONNECTED				
1	Rod Control	1	1	0
2	Safety Injection	29	21	8
3	Chemical Vol Cntl	37	35	2
4	Residual Ht Reml	21	16	5
5	Reactor Coolant	18	13	5
7	Control RH Vent	42	0	42
8	Service Water	155	119	36
9	Component Cooling	86	41	45
10	Nitrogen Backup	32	30	2
11	Diesel Generator	37	34	3
12	DC Power	11	11	0
13	Cont Isolation	10	1	9
14	Main Steam	40	40	0
16	Hydrogen Recombiner	29	18	11
17	Reactor Protection	36	12	24
18	Electric Trays	31	23	8
21	Containment Recirc	2	0	2
23	Auxiliary Feedwater	3	2	1
		620	439	203
CONNECTED - PHYSICAL PROCESS				
2	Safety Injection	4	4	0
3	Chemical Vol Cntl	1	1	0
8	Service Water	5	5	0
		10	10	0

TABLE 2

SYSTEM - SPECIFIC SUMMARY/STATUS OF INTERACTION RESOLUTIONS AS OF MARCH , 1984

	NO. OF INTERACTIONS REQUIRING AUTHORITY RESOLUTION	NUMBER CLOSED BY AUTHORITY	NUMBER REMAINING OPEN
CONNECTED - INDUCED OPERATOR ERRORS			
System			
5 Reactor Coolant	9	9	0
10 Nitrogen Backup	1	1	0
	10	10	0
AREA - SPECIFIC			
o Systems interactions induced by internally generated missiles and pipe whip	1	1	0
o Systems Interactions induced by severe environment within Class I structures	1	0	1
o Systems interactions induced by the effects of internally generated floods	1	1	0
CENTRAL CONTROL ROOM REVIEW	1	1	0