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Indian Point 3 Nuclear Power Plant

Systems Interaction Study Report

Volume 4

New York Power Authority

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COPY NUMBER 3

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3.0 Chemical Volume and Control System

3.1 Function & Applicability

The Chemical and Volume Control System (CVCS) is required to provide two of the four basic safety functions as follows:

i) Achieve and Maintain Reactor Subcriticality (FT-1)*

Emergency boration by the CVCS provides a backup reactivity shutdown capability to shutdown the reactor independent of the control rod clusters. Also, the CVCS provides pressure control of the Reactor Coolant System through use of the Pressurizer Auxiliary Spray. The CVCS also provides makeup to the RCS via the Charging Lines (No RCS or Secondary Line Breaks).

ii) Maintain Reactor Coolant Pressure Boundary (FT-4)*

CVCS valves in the Letdown are required to isolate a Letdown rupture from the RCS.

CVCS is described in System Description No. 3.

3.2 Scope

3.2.1 For the purpose of this study CVCS includes:

- Charging Pumps
- Boric Acid Tanks & Transfer Pumps
- Auxiliary Pressurizer Spray
- Piping, Valves, Instrumentation and Electrical Components as indicated in the corresponding disciplines Nonconnected and Interconnected Matrices.

3.2.2 Included on the Interconnected and Nonconnected Matrices along with its respective piping and valves are:

- Regenerative Heat Exchanger
- Non-Regenerative Heat Exchanger
- Volume Control Tank
- Boric Acid Blender
- Excess Letdown Heat Exchanger
- Seal Water Heat Exchanger

* Function Tables 1 & 4. See Volume 1 Tab entitled Functional Tables.

These items do not contribute to any of the four basic safety functions and, for the purpose of this study, are considered as non-safety related. However, their inclusion in the report was deemed necessary since the integrity of the piping is required to avoid degrading effects on the safety related components of the system.

3.2.3 The recycle system is not included within the scope of this study since it does not contribute to any of the basic safety related functions and is isolated from the rest of the CVCS.

The boundaries of this study for CVCS are shown on flow diagram FD 5209.03, Sheet 1.

3.2.4 Support systems which are relied upon for CVCS safety related functions are included on Auxiliary Diagram AD-3.

3.2.5 Systems which interface with CVCS but are not deemed necessary for accomplishing the safety related functions are:

i) Instrument Air System

All valves which are powered by instrument air will, upon loss of air, fail in their safety related position (Response to FSAR Question 9.19.3). Instrument Air is therefore not relied upon for safety related function.

The following will occur on loss of instrument air:

- HCV-133 - RHR to CVCS letdown fails closed.
- HCV-142 - CVCS charging fails closed.
- 201,202 Letdown containment isolation fail closed.
- Charging pump speed goes to maximum.

These occurances will effect the transition to RHR.

Emergency boration could be accomplished by seal injection or by the manual bypass around HCV-142. Since the letdown line becomes unavailable no flow path will exist between RHR and CVCS. However, RHR flow from the RCS, through the RHR heat exchangers and back to the RCS can be accomplished without instrument air.

The charging pump speed going to maximum would cause the pressurizer to fill. This is not serious due to the shrinking effect of the cooldown, and the requirement for pressurizer level to be at 85%. Manual control would prevent the pressurizer from completely filling.

ii) Waste Disposal System

This system provides for drainage of CVCS components for maintenance. It does not contribute to any safety related function.

iii) Nitrogen & Hydrogen

The volume control tank is used to strip hydrogen and reactor fission gases from reactor coolant prior to cold shutdown for refueling. This is not a safety related function.

3.2.6 All devices located in the Control Room are evaluated generically as part of the Control Room Review.

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CHEMICAL VOLUME & CONTROL SYSTEM

MECHANICAL

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
L-3-6-8	3-M-1-A	NR	NR
L-3-10-2	3-M-2-A	NR	NR
L-3-14-6	3-M-3-A	NR	NR
L-3-14-7	3-M-3-A	NR	NR
L-3-14-8	3-M-3-A	NR	NR
L-3-14-9	3-M-3-A	NR	NR
L-3-14-10	3-M-3-A	NR	NR
L-3-20-2	3-M-4-P	71A-004-P	5209-71A-008-A
L-3-22-1	3-M-5-A	NR	NR
L-3-26-2	3-M-6-A	NR	NR
L-3-27-3	3-M-7-A	NR	NR
L-3-55-1	3-M-8-A	NR	NR
L-3-60-1	3-M-9-A	NR	NR
L-3-60-5	3-M-9-A	NR	NR
L-3-74-9	3-M-10-A	59A-006-P	NR
L-3-76-9	3-M-11-A	59A-006-P	NR
L-3-87-1	3-M-12-A	0-002-A	NR

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	L-3-151-1	3-M-13-A	10A-001-A	NR
	L-3-153-1	3-M-14-A	10A-001-A	NR
	L-3-158-1	3-M-15-A	10A-001-A	NR
	L-3-177-3	3-M-16-P	27A-006-P	5209-27A-031-A
*	L-3-177-6	3-M-16-P	27A-008-P	NA
	L-3-178-3	3-M-17-P	27A-006-P	5209-27A-031-A
	L-3-179-1	3-M-18-P	27A-004-A	NR
	L-3-179-3	3-M-18-P	27A-006-P	5209-27A-031-A
*	L-3-179-4	3-M-18-P	27A-007-P	NA
*	L-3-179-6	3-M-18-P	27A-008-P	NA
	L-3-180-3	3-M-19-P	27A-006-P	5209-27A-031-A
	L-3-181-1	3-M-20-P	27A-004-A	NR
	L-3-181-3	3-M-20-P	27A-006-P	5209-27A-031-A
*	L-3-181-4	3-M-20-P	27A-007-P	NA
*	L-3-181-6	3-M-20-P	27A-008-P	NA
	L-3-182-1	3-M-21-P	27A-004-A	NR
	L-3-182-3	3-M-21-P	27A-006-A	5209-27A-031-A

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*	L-3-182-4	3-M-21-P	27A-007-P	NA
*	L-3-182-6	3-M-21-P	27A-008-P	NA
	L-3-183-1	3-M-22-P	27A-004-A	NR
	L-3-183-3	3-M-22-P	27A-006-P	5209-27A-031-A
*	L-3-183-4	3-M-22-P	27A-007-P	NA
*	L-3-183-6	3-M-22-P	27A-008-P	NA
	L-3-184-1	3-M-23-A	NR	NR
	L-3-184-3	3-M-23-A	NR	NR
	L-3-184-4	3-M-23-A	NR	NR
	L-3-184-5	3-M-23-A	NR	NR
	L-3-184-6	3-M-23-A	NR	NR
	L-3-185-1	3-M-24-P	27A-004-A	NR
	L-3-185-3	3-M-24-P	27A-006-P	5209-27A-031-A
	L-3-186-2	3-M-25-P	27A-005-P	5209-27A-031-A
	L-3-186-3	3-M-25-P	27A-006-P	5209-27A-031-A
*	L-3-186-6	3-M-25-P	27A-008-P	NA
	L-3-187-2	3-M-26-P	27A-005-P	5209-27A-031-A

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	L-3-187-3	3-M-26-P	27A-006-P	5209-27A-031-A
*	L-3-187-6	3-M-26-P	27A-008-P	NA
	L-3-188-2	3-M-27-P	27A-005-P	5209-27A-031-A
	L-3-188-3	3-M-27-P	27A-006-P	5209-27A-031-A
*	L-3-188-6	3-M-27-P	27A-008-P	NA
	L-3-189-2	3-M-28-P	27A-005-P	5209-27A-031-A
	L-3-189-3	3-M-28-P	27A-006-P	5209-27A-031-A
*	L-3-189-6	3-M-28-P	27A-008-P	NA
	L-3-190-2	3-M-29-P	27A-006-P	5209-27A-031-A
*	L-3-190-5	3-M-29-P	27A-008-P	NA
	L-3-191-1	3-M-30-A	NR	NR
	L-3-191-2	3-M-30-A	NR	NR
	L-3-191-3	3-M-30-A	NR	NR
	L-3-191-5	3-M-30-A	NR	NR
	L-3-192-2	3-M-31-P	27A-006-P	5209-27A-031-A
	L-3-200-1	3-M-32-P	27A-004-A	NR
*	L-3-200-15	3-M-32-P	27A-012-P	NA

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L-3-201-1	3-M-33-A	NR	NR
L-3-201-2	3-M-33-A	NR	NR
L-3-201-3	3-M-33-A	NR	NR
L-3-201-4	3-M-33-A	NR	NR
L-3-201-5	3-M-33-A	NR	NR
L-3-202-1	3-M-34-A	NR	NR
L-3-202-2	3-M-34-A	NR	NR
L-3-202-3	3-M-34-A	NR	NR
L-3-202-4	3-M-34-A	NR	NR
L-3-202-5	3-M-34-A	NR	NR
L-3-224-4	3-M-35-A	NR	NR
L-3-229-1	3-M-36-A	NR	NR
L-3-229-2	3-M-36-A	NR	NR
L-3-229-3	3-M-36-A	NR	NR
L-3-248-1	3-M-37-A	NR	NR
L-3-248-5	3-M-37-A	NR	NR
L-3-251-1	3-M-38-A	NR	NR

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V-3-23-3	3-M-39-A	NR	NR
V-3-27-1	3-M-40-A	NR	NR
V-3-27-3	3-M-40-A	NR	NR
V-3-42-1	3-M-41-P	71A-002-A	NR
V-3-43-2	3-M-42-A	NR	NR
V-3-47-4	3-M-43-A	NR	NR
V-3-146-2	3-M-44-P	59A-018-A	NR
V-3-147-2	3-M-45-P	59A-018-A	NR
V-3-245-1	3-M-46-A	10A-001-A	NR
V-3-252-1	3-M-47-A	10A-001-A	NR
V-3-255-1	3-M-48-A	10A-001-A	NR
V-3-256-1	3-M-49-A	10A-001-A	NR
V-3-260-1	3-M-50-A	10A-001-A	NR
V-3-261-1	3-M-51-A	10A-001-A	NR
V-3-262-1	3-M-52-A	10A-001-A	NR
V-3-265-1	3-M-53-A	10A-001-A	NR
V-3-287-1	3-M-54-P	27A-004-A	NR

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	V-3-287-2	3-M-54-P	27A-006-P	5209-27A-031-A
*	V-3-287-3	3-M-54-P	27A-007-P	NA
*	V-3-287-5	3-M-54-P	27A-008-P	NA
	V-3-288-2	3-M-55-P	27A-006-P	5209-27A-031-A
*	V-3-288-5	3-M-55-P	27A-008-P	NA
	V-3-289-2	3-M-56-A	NR	NR
	V-3-289-5	3-M-56-A	27A-008-P	NR
	V-3-290-1	3-M-57-A	NR	NR
	V-3-290-2	3-M-57-A	NR	NR
	V-3-290-3	3-M-57-A	NR	NR
	V-3-290-5	3-M-57-A	NR	NR
	V-3-291-2	3-M-58-A	NR	NR
	V-3-292-2	3-M-59-A	27A-006-P	NR
	V-3-298-1	3-M-60-A	NR	NR
	V-3-298-6	3-M-60-A	NR	NR
	V-3-299-1	3-M-61-A	NR	NR
	V-3-299-6	3-M-61-A	NR	NR

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V-3-300-1	3-M-62-A	NR	NR
V-3-300-2	3-M-62-A	NR	NR
V-3-300-3	3-M-62-A	NR	NR
V-3-300-5	3-M-62-A	NR	NR
V-3-301-1	3-M-63-A	NR	NR
V-3-301-2	3-M-63-A	NR	NR
V-3-301-3	3-M-63-A	NR	NR
V-3-301-5	3-M-64-A	NR	NR
V-3-302-3	3-M-64-A	NR	NR
V-3-302-6	3-M-64-A	NR	NR
V-3-303-3	3-M-65-A	NR	NR
V-3-304-3	3-M-66-A	NR	NR
V-3-305-3	3-M-67-A	NR	NR
V-3-306-1	3-M-68-A	NR	NR
V-3-306-2	3-M-68-A	NR	NR
V-3-306-3	3-M-68-A	NR	NR
V-3-306-4	3-M-68-A	NR	NR

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V-3-307-3	3-M-69-A	27A-006-P	NR
V-3-307-6	3-M-69-A	NR	NR
V-3-308-3	3-M-70-A	NR	NR
V-3-309-1	3-M-71-A	NR	NR
V-3-309-3	3-M-71-A	NR	NR
V-3-309-4	3-M-71-A	NR	NR
V-3-309-6	3-M-71-A	NR	NR
V-3-310-1	3-M-72-A	NR	NR
V-3-310-3	3-M-72-A	NR	NR
V-3-310-4	3-M-72-A	NR	NR
V-3-310-6	3-M-72-A	NR	NR
V-3-311-1	3-M-73-A	NR	NR
V-3-311-3	3-M-73-A	NR	NR
V-3-311-4	3-M-73-A	NR	NR
V-3-311-6	3-M-73-A	NR	NR
V-3-312-1	3-M-74-A	NR	NR
V-3-312-3	3-M-74-A	NR	NR

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V-3-312-4	3-M-74-A	NR	NR
V-3-312-6	3-M-74-A	NR	NR
V-3-313-1	3-M-75-A	NR	NR
V-3-313-3	3-M-75-A	NR	NR
V-3-313-4	3-M-75-A	NR	NR
V-3-313-6	3-M-75-A	NR	NR
V-3-314-1	3-M-76-A	NR	NR
V-3-314-3	3-M-76-A	NR	NR
V-3-314-4	3-M-76-A	NR	NR
V-3-314-6	3-M-76-A	NR	NR
V-3-315-1	3-M-77-A	NR	NR
V-3-315-3	3-M-77-A	NR	NR
V-3-315-4	3-M-77-A	NR	NR
V-3-315-6	3-M-77-A	NR	NR
V-3-316-1	3-M-78-A	NR	NR
V-3-316-3	3-M-78-A	NR	NR
V-3-316-4	3-M-78-A	NR	NR

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	V-3-316-6	3-M-78-A	NR	NR
	V-3-317-2	3-M-79-A	NR	NR
	V-3-317-3	3-M-79-A	NR	NR
	V-3-317-6	3-M-79-A	NR	NR
	V-3-318-1	3-M-80-A	NR	NR
	V-3-318-3	3-M-80-A	NR	NR
	V-3-319-1	3-M-81-A	NR	NR
	V-3-319-3	3-M-81-A	NR	NR
	V-3-320-2	3-M-82-A	NR	NR
	V-3-320-3	3-M-82-A	NR	NR
	V-3-320-6	3-M-82-A	NR	NR
	V-3-321-1	3-M-83-P	27A-004-A	NR
	V-3-321-2	3-M-83-P	27A-005-P	5209-27A-031-A
	V-3-321-3	3-M-83-P	27A-006-P	5209-27A-031-A
*	V-3-321-4	3-M-83-P	27A-007-P	NA
*	V-3-321-6	3-M-83-P	27A-008-P	NA
	V-3-322-2	3-M-84-A	NR	NR

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	V-3-322-3	3-M-84-A	NR	NR
	V-3-322-6	3-M-84-A	NR	NR
	V-3-323-1	3-M-85-P	27A-004-A	NR
	V-3-323-2	3-M-85-P	27A-005-P	5209-27A-031-A
	V-3-323-3	3-M-85-P	27A-006-P	5209-27A-031-A
*	V-3-323-4	3-M-85-P	27A-007-P	NA
*	V-3-323-6	3-M-85-P	27A-008-P	NA
	V-3-325-2	3-M-86-A	NR	NR
	V-3-325-3	3-M-86-A	NR	NR
	V-3-325-6	3-M-86-A	NR	NR
	V-3-326-1	3-M-87-P	27A-004-A	NR
	V-3-326-2	3-M-87-P	27A-005-P	5209-27A-031-A
	V-3-326-3	3-M-87-P	27A-006-P	5209-27A-031-A
*	V-3-326-4	3-M-87-P	27A-007-P	NA
*	V-3-326-6	3-M-87-P	27A-008-P	NA
	V-3-329-1	3-M-88-A	NR	NR
	V-3-339-1	3-M-89-A	NR	NR

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* Unacceptable by all 3 types of evaluation.

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

CHEMICAL VOLUME & CONTROL SYSTEM

MECHANICAL

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
V-3-341-1	3-M-90-A	NR	NR
V-3-342-1	3-M-91-A	NR	NR
V-3-343-1	3-M-92-A	NR	NR
V-3-344-1	3-M-93-A	NR	NR
V-3-345-1	3-M-94-A	NR	NR
V-3-346-1	3-M-95-A	NR	NR
V-3-347-1	3-M-96-A	NR	NR
V-3-348-1	3-M-97-A	NR	NR
V-3-357-1	3-M-98-A	NR	NR
V-3-358-1	3-M-99-A	NR	NR
V-3-360-1	3-M-100-A	NR	NR
V-3-360-2	3-M-100-A	NR	NR
V-3-360-3	3-M-100-A	NR	NR
V-3-371-2	3-M-101-A	NR	NR
V-3-373-2	3-M-102-A	NR	NR
V-3-374-1	3-M-103-A	NR	NR
V-3-378-1	3-M-104-A	NR	NR

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TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

CHEMICAL VOLUME & CONTROL SYSTEM

MECHANICAL

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
V-3-380-1	3-M-105-A	NR	NR
V-3-382-1	3-M-106-A	NR	NR
V-3-383-1	3-M-107-A	NR	NR
V-3-385-1	3-M-108-P	88A-003-P	5209-88A-034-A
V-3-386-1	3-M-109-P	88A-003-P	5209-88A-034-A
V-3-387-1	3-M-110-P	88A-003-P	5209-88A-034-A
V-3-388-1	3-M-111-P	88A-003-P	5209-88A-034-A
V-3-389-1	3-M-112-P	88A-003-P	5209-88A-034-A
V-3-390-1	3-M-113-P	88A-003-P	5209-88A-034-A
V-3-391-1	3-M-114-P	88A-003-P	5209-88A-034-A
V-3-392-1	3-M-115-P	88A-003-P	5209-88A-034-A

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
MATRIX PREPARATION

SYSTEM NO 3

SYSTEM NAME CHEMICAL & VOLUME CONTROL SYSTEM

MATRIX CATEGORY

NON-CONNECTED _____

INTERCONNECTED X

9/17/82
PREPARED BY/DATE

7-15-82
APPROVED BY/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT EQUIPMENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
EXCESS LETDOWN HEAT EXCHANGER #31	1"-CH-98	S	
	1"-CH-97	S	
	3/4"-1158A	S	
	3/4"-1158B	S	
	3"-AC-18 } AUX COOLANT SYSTEM	S	
	3"-AC-22 }	S	
REGENERATIVE HEAT EXCHANGER #31	3"-CH-80	S	
	3"-CH-79	S	
	3"-CH-27	S	
	3"-CH-19	S	
NON-REGENERATIVE HEAT EXCHANGER #31	2"-CH-27	S	
	2"-CH-99	S	
	3/4"-WD-545	S	
	1157A	S	
	1157B	S	
	1158C	S	
	1158D	S	
	6"-AC-149 } AUX COOLANT SYSTEM	S	
	6"-AC-148	S	
VOLUME CONTRL TANK #31	1"-CH-115	S	
	4"-CH-298	S	
	4"-CH-200	S	
	3"-CH-99	S	
	2"-CH-755	S	
	300A } LT-112	S	
	299A }	S	
	300B } LC-1120	S	
	299B }	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT EQUIPMENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
SEAL WATER HEAT EXCHANGER # 31	4" - CH - 478	S	
	4" - CH - 298	S	
	224C	S	
	1157C	S	
	1157D	S	
	3" - AC - 147 AUX COOLANT SYSTEM	S	
	3" - AC - 146	S	
SEAL WATER FILTER # 31	4" - CH - 17	S	
	4" - CH - 478	S	
	3/4" - CH - 858	S	
	3/4" - CH - 114	S	
CHARGING PUMP # 31	4" - CH - 203	S	
	3" - CH - 217	S	
	1" - CH - 800	S	
	275	S	
	SC - 141A (I&C)		
MOTOR	480V BUS 5A	S	
	1" - AC - 640	S	
	2" - AC - 640 AUX COOLANT	S	
	1" - AC - 638 SYSTEM	S	
	2" - AC - 638	S	
CHARGING PUMP # 32	4" - CH - 207	S	
	3" - CH - 214	S	
	1" - CH - 801	S	
	279	S	
	SC - 141B (I&C)		

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT EQUIPMENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
MOTOR	480V BUS 3A	S	
	1" - AC - 641	S	
	2" - AC - 641 AUX COOLANT	S	
	1" - AC - 639 SYSTEM	S	
	2" - AC - 639	S	
CHARGING PUMP # 33	4" - CH - 200	S	
	3" - CH - 19	S	
	1" - CH - 802	S	
	280	S	
	SC - 141C (I&C)		
MOTOR	480V BUS 6A	S	
	1" - AC - 404	S	
	2" - AC - 404	S	
	1" - AC - 403	S	
	2" - AC - 403	S	
BORIC ACID BLENDER	2" - CH - 292	S	
	1" - CH - 202	S	
	3/8" - CH -871	S	
BORIC ACID FILTER # 31	2" - CH - 227	S	
	2" - CH - 204	S	
	399A	S	
	335	S	

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SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT EQUIPMENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
BORIC ACID TANK # 31	1" - CH - 236	S	
	2" - CH - 225	S	
	2" - CH - 221	S	
	3" - CH - 237	S	
	1151A	S	
	BORIC ACID TANK HEATERS	S	
	TIC-107	S	
	LT-106	S	
BORIC ACID TANK # 32	1" - CH - 236	S	
	2" - CH - 230	S	
	2" - CH - 229	S	
	3" - CH - 238	S	
	1151B	S	
	BORIC ACID TANK HEATERS	S	
	TIC - 103	S	
	LT - 102	S	
BORIC ACID TRANSFER PUMP # 31	2" - CH - 221	S	
	2" - CH - 225	S	
MOTOR	MCC 36A	S	
BORIC ACID TRANSFER PUMP # 32	2" - CH - 229	S	
	2" - CH - 230	S	
MOTOR	MCC 36B	S	

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SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT EQUIPMENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
SEAL INJECTION FILTER # 31	2" - CH - 402	S	
	2" - CH - 41	S	
	3/8" - CH - 856	S	
	3/4" - CH - 553	S	
	1199A	S	
	1199B	S	
	239H	S	
SEAL INJECTION FILTER # 32	2" - CH - 402	S	
	2" - CH - 41	S	
	3/8" - CH - 857	S	
	3/4" - CH - 551	S	
	1199C	S	
	1199D	S	
	2396	S	
REACTOR COOLANT FILTER # 31	3" - CH - 99	S	
	3" - CH - 99	S	
	3/4" - CH - 847	S	
	3/4" - CH - 244	S	
	304A	S	
	304B	S	
2" - ST - 1	2" - CH - 221	S	
	2" - CH - 221	S	
2" - ST - 2	2" - CH - 229	S	
	2" - CH - 229	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 214	1" - CH -98	S	
	PT - 121	S	
1" - HCV - 123 (AIR OPERT)	1" - CH - 98	S	
	1" - CH - 98	S	
	INST AIR	S	
3/4" - C - 134	1" - CH - 98	S	
	DRAIN	S	
3/4" - 1158B	EXCESS LETDOWN HEAT EXCHANGER #31	S	
	DRAIN	S	
3/4" - 1158A	EXCESS LETDOWN HEAT EXCHANGER #31	S	
	DRAIN	S	
1" - 213B (AIR OPERATED)	1" - CH - 97	S	
	1" - CH - 97	S	
	INST AIR	S	
1" - 213A (AIR OPERATED)	1" - CH - 97	S	
	1" - CH - 97	S	
	INST AIR	S	
1" - 400	1" - CH - 97	S	
	1" - CH - 97	S	
3" - 342	3" - CH - 79	S	
	3" - CH - 79	S	

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SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3" - LCV - 459	3" - CH - 79	S	
(AIR OPERT.)	3" - CH - 79	S	
SOL	125 V DC PNL #32	S	
3" - LCV - 460	3" - CH - 79	S	
(AIR OPERT.)	3" - CH - 79	S	
SOL	125 V DC PNL #31	S	
3/4" - C - 110	3" - CH - 79	S	
	VENT	S	
3/4" - C - 111	3" - CH - 79	S	
	DRAIN	S	
3" - 210D	3" - CH - 96	S	
	3" - CH - 96	S	
3" - 210B	3" - CH - 96	S	
	3" - CH - 96	S	
3" - 204B	3" - CH - 96	S	
(AIR OPERT.)	3" - CH - 96	S	
SOL.	125V DC PNL #32	S	
3" - 210C	3" - CH - 80	S	
	3" - CH - 80	S	
3" - 210A	3" - CH - 80	S	
	3" - CH - 80	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3"-204A	3"-CH-80	S	
(AIR OPERT)	3"-CH-80	S	
SOL	125V DC PNL #31	S	
3/4"-C-112	3"-CH-80	S	
	DRAIN	S	
2"-211	2"-CH-64	S	
	2"-CH-64	S	
2"-212	2"-CH-64	S	
(AIR OPERT)	2"-CH-64	S	
SOL	125V DC PNL #31	S	
3/4"-C-108	3"-CH-27	S	
	VENT	S	
LETDOWN ORIFICE	2"-CH-27	S	
#31	2"-CH-27	S	
LETDOWN ORIFICE	2"-CH-27	S	
#32	2"-CH-27	S	
LETDOWN ORIFICE	2"-CH-27	S	
#33	2"-CH-27	S	
3/4"-C-123	2"-CH-27	S	
	DRAIN	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 200 A	2" - CH - 27	S	
(AIR OPERT.)	2" - CH - 27	S	
SOL.	125V DC PNL #31	S	
2" - 200B	2" - CH - 27	S	
(AIR OPERT.)	2" - CH - 27	S	
SOL.	125V DC PNL #31	S	
2" - 200C	2" - CH - 27	S	
(AIR OPERT.)	2" - CH - 27	S	
SOL.	125V DC PNL #31	S	
SRV - 203	2" - CH - 27	S	
(2"X 3")	3" - RC - 38A (cat-II)	N	3-M-1
3/4" - C - 124	2" - CH - 27	S	
	DRAIN	S	
2" - HCV - 133	2" - CH - 29	S	
(AIR OPERT.)	2" - CH - 29	S	
2" - 201	2" - CH - 27	S	
(AIR OPERT.)	2" - CH - 27	S	
SOL.	125V DC PNL #31	S	
2" - 202	2" - CH - 27	S	
(AIR OPERT.)	2" - CH - 27	S	
SOL.	125V DC PNL #32	S	
3/4" - C - 135	2 - CH - 27	S	
	VENT	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 1158C	NON-REGENERATIVE HEAT EXCHANGER #31	S	
	VENT	S	
3/4" - 1158D	NON-REGENERATIVE HEAT EXCHANGER #31	S	
	3/4" - WD -545	S	
3/4" - 1157A	NON-REGENERATIVE HEAT EXCHANGER #31	S	
	VENT	S	
3/4" - 1157B	NON-REGENERATIVE HEAT EXCHANGER #31	S	
	DRAIN	S	
3/4" - C - 136	2" - CH - 99	S	
	DRAIN	S	
2" - 206	2" - CH - 99	S	
	2" - CH - 99	S	
3/4" - 207	2" - CH - 99	S	
	PT - 135	S	
2" - FE - 134	2" - CH - 99	S	
	2" - CH - 99	S	
	208	S	
	209	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 208	FE - 134	S	
	FT - 134	S	
3/4" - 209	FE - 134	S	
	FT - 134	S	
2" - PCV - 135	2" - CH - 99	S	
(AIR OPERATED)	2" - CH - 99	S	
3/4" - 974B	3/4" - CH - 296	S	
	3/8" - SL - 296 (cat-II)	N	3-M-2
3" - TCV - 149	3" - CH - 99	S	
(AIR OPERATED 3	2" - CH - 140	S	
WAY VALVE)	3" - CH - 99	S	
SOL.	125V DC PNL #32	S	
SRV - 263	2" - CH - 169	S	
(2" X 3")	3" - CH - 169	S	
3/8" - 969	3/8" - SL - 375	S	
	3/8" - SL - 375	S	
1" - PCV -113A	1" - CH - 162	S	
(AIR OPERATED)	1" - CH - 162	S	
1" - 269	1" - CH - 162	S	
	1" - CH - 115	S	

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
1" - 271	1" - CH - 115 (cat-III)	N	3-M-3
	1" - CH - 115	S	
1" - 270	1" - CH - 115	S	
	1" - CH - 115	S	
3/4" - 266A	2" - CH - 250	S	
	PT - 139	S	
SRV - 264 (2" X 3")	2" - CH - 250	S	
	3" - CH - 480	S	
3/4" - 266D	3/4" - CH - 436	S	
	3/4" - CH - 436	S	
3/8" - 265 (SOLENOID OPERT)	3/8" - CH - 436	S	
	3/8" - CH _ 436	S	
3/8" - PCV - 193A (AIR OPERATED)	3/8" - CH - 436	S	
	3/8" - CH - 436	S	
	INST AIR	S	
3/4" - 975	3/4" - CH - 297	S	
	3/8" - SS - 297 (cat-II)	N	3-M-4
3/4" - 266B	3/4" - CH - 448	S	
	3/4" - CH - 448	S	
3/4" - 268 (MOV)	3/4" - CH - 448	S	
	3/4" - CH - 448	S	
	125V DC PNL #31	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - PCV - 113B	3/4" - CH - 448	S	
(AIR OPERT)	3/4" - CH - 448	S	
	INST. AIR	S	
3/4" - 266C	3/4" - CH - 448	S	
	3/4" - WD - 448	S	
3" - 357	3" - CH - 99	S	
	3" - CH - 99	S	
3/4" - C - 212	3" - CH - 99	S	
	VENT		
3" - LCV 112A	3" - CH - 99	S	
(AIR OPERT 3	3" - CH - 99	S	
WAY VALVE)	2" - CH - 116	S	
	INST AIR	S	
SOL.	125V DC PNL #31	S	
3" - 302	3" - CH - 99	S	
	3" - CH - 99	S	
3" - 306	3" - CH - 299	S	
	3" - CH - 299	S	
3/4" - 304A	3/4" - CH - 847	S	
	3/8" - CH - 847 (vent)	S	
3/4" - 304B	3/4" - CH - 244	S	
	3/4" - CH - 244	S	
3/4" - 303	3" - CH - 99	S	
	PI - 138	S	

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3" - 305	3" - CH - 99	S	
	3" - CH - 99	S	
3/4" - 307	3" - CH - 99	S	
	PI - 137	S	
3/4" - 974A	3" - CH - 99	S	
	3/8" - CH - 99	S	
3" - 310	2" - CH - 120	S	
(AIR OPERT 3 WAY	3" - CH - 120	S	
VALVE)	2" - CH - 309	S	
	INST AIR	S	
SOL	125V DC PNL #32	S	
2" - 313	2" - CH - 316	S	
	2" - CH - 316	S	
2" - 8110	2" - CH - 3000	S	
	2" - CH - 3000	S	
2" - 300A	VOLUME CONTROL TANK	S	
	LT - 112	S	
	300B	S	
2" - 300B	VOLUME CONTROL TANK	S	
	LC - 112D	S	
	300A	S	

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SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 299A	VOLUME CONTROL TANK	S	
	LT - 112	S	
	1295A	S	
	299B	S	
	2" - CH - 755	S	
2" - 299B	VOLUME CONTROL TANK	S	
	299A	S	
	2"-CH-755	S	
	LC-112D	S	
	1295B	S	
3/4" - 1295A	299A	S	
	LT-112	S	
	DRAIN	S	
3/4" - 1295B	299B	S	
	LC - 112D	S	
	DRAIN		
4" - LCV - 112C (MOV)	4" - CH - 200	S	
	4" - CH - 200	S	
	480V MCC 36A	S	
1" - 298	1" - CH - 201	S	
	1" - CH - 201	S	
4" - 292	4" - CH - 200	S	
	4" - CH - 200	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - FCV - 111B	2" - CH - 170	S	
(AIR OPERT)	2" - CH - 170	S	
SOL	125V DC PNL #31	S	
3/4" 1298A	3/4" - CH - 870	S	
	3/4" - CH - 870	S	
3/8" 1299A	3/8" - CH - 870	S	
	3/8" - CH - 870 (cat-III)	N	3-M-5
2" - 297	2" - CH - 202	S	
	2" - CH - 202	S	
3/4" - 1298B	3/4" - CH - 872	S	
	3/4" - CH - 872	S	
3/8" - 1299B	3/8" - CH - 872	S	
	3/8" - CH - 872 (cat-III)	N	3-M-6
2" - FCV - 110B	2" - CH - 202	S	
(AIR OPERT)	2" - CH - 202	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	
2" - 295	2" - CH - 253	S	
	2" - CH - 253	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 294	2" - CH - 253	S	
	2" - CH - 253	S	
2" - 350	2" - CH - 253	S	
	2" - CH - 253	S	
3/4" - 296	3/4" - CH - 870	S	
	3/4" - CH - 870	S	
3/8" - 1299F	3/8" - CH - 870	S	
	3/8" - CH - 870 (cat III)	N	3-M-5
3/4" - 1298E	3/4" - CH - 874	S	
	3/4" - CH - 874	S	
3/8" - 1299E	3/8" - CH - 874	S	
	3/8" - CH - 874 (cat-III)	N	3-M-7
2" - 327	2" - CH - 430	S	
	2" - CH - 430	S	
2" - FCV -111A	2" - CH - 430	S	
(AIR OPERT)	2" - CH - 430	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	
1" - 293	1" - CH - 202	S	
	1" - CH - 204	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS		SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 1298C	3/4" - CH - 873		S	
	3/4" - CH - 873		S	
3/8" - 1299C	3/8" - CH - 873		S	
	3/8" - CH - 873	(cat-III)	N	3-M-8
3/4" - C - 211	4" - CH - 200		S	
	VENT		S	
1" - 247	1" - CH - 254		S	
	1" - CH - 254		S	
1" - 282	1" - CH - 254		S	
	1" - CH - 254	(cat-II)	N	3-M-9
4" - 289	4" - CH - 200		S	
	4" - CH - 200		S	
4" - LCV - 112B (MOV)	4" - CH - 205		S	
	4" - CH - 205		S	
4" - 290	4" - CH - 205		S	
	4" - CH - 205		S	
4" - 288	4" - CH - 206		S	
	4" - CH - 206		S	
2" - 331	2" - CH - 393		S	
	2" - CH - 208		S	
2" - 330	2" - CH - 393		S	
	2" - CH - 393		S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-1298D	3/4"-CH-870	S	
	3/4"-CH-870	S	
3/8"-1299D	3/8"-CH-870	S	
	3/8"-CH-870 (cat-III)		
2"-332	2"-CH-208	S	
	2"-CH-208	S	
2"-333	2"-CH-208	S	
(MOV)	2"-CH-208	S	
	480V MCC 36B	S	
3/4"-C-202	2"-CH-208	S	
	DRAIN	S	
1"-329	1"-CH-204	S	
	1"-CH-204	S	
3/4"-C-203	1"-CH-204	S	
	VENT	S	
3/4"-C-203	1"-CH-204	S	
(AIR OPERT)	1"-CH-204	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
1" - 328	1" - CH - 204	S	
	1" - CH - 204	S	
2" - 1197	2" - CH - 284	S	
	2" - CH - 284	S	
2" - 334	2" - CH - 204	S	
	2" - CH - 204	S	
3/4" - 399B	2" - CH - 204	S	
	PI - 109	S	
3/4" - 399A	BORIC ACID FILTER #31 VENT	S	
3/4" - 335	BORIC ACID FILTER #31	S	
	DRAIN	S	
2" - 336	2" - CH - 227	S	
	2" - CH - 227	S	
3/4" - 399C	2" - CH - 227	S	
	PI - 108	S	
2" - 360	2" - CH - 227	S	
	2" - CH - 227	S	
2" - 370	2" - CH - 232	S	
	2" - CH - 232	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 267A	2" - CH - 228	S	
	2" - CH - 228	S	
2" - 267B	2" - CH - 251	S	
	2" - CH - 251	S	
1" - 1151A	BORIC ACID TANK #31	S	
	DRAIN	S	
3/4" - 338	3/4" - CH - 222	S	
	3/4" - CH - 222	S	
2" - 337	2" - CH - 221	S	
	2" - CH - 221	S	
2" - 367A	2" - CH - 221	S	
	2" - CH - 223	S	
2" - 364	2" - CH - 221	S	
	2" - CH - 221	S	
2" - 367B	2" - CH - 229	S	
	2" - CH - 223	S	
2" - 366	2" - CH - 229	S	
	2" - CH - 229	S	
2"-363	2"-CH-224	S	
	2"-CH-224 (cat-II)	N	3-M-10

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 365	2" - CH - 224	S	
	2" - CH - 224 (cat-II)	N	3-M-10
2" - 373	2" - CH - 229	S	
	2" - CH - 229	S	
3/4" - 375	3/4" - CH - 233	S	
	3/4" - CH - 233	S	
1" - 1151B	BORIC ACID TANK #32 DRAIN	S	
2" - HCV - 104 (AIR OPERT.)	2" - CH - 230	S	
	2" - CH - 230	S	
	INST AIR	S	
2" - 369	2" - CH - 230	S	
	2" - CH - 230	S	
2" - 362B	2" - CH - 230	S	
	2" - CH - 230	S	
3/4" - 355B	2" - CH - 230	S	
	PI - 190B	S	
3/4" -371	3/4" - CH - 231	S	
	3/4" - CH - 231	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - ORIFICE	3/4" - CH - 231	S	
CSORBA2	3/4" - CH - 231	S	
2" - HCV - 105	2" - CH - 225	S	
(AIR OPERT)	2" - CH - 225	S	
	INST AIR	S	
SOL	118V INSTR. BUS NO. 31	S	
2" - 361	2" - CH - 225	S	
	2" - CH - 225	S	
2" - 362A	2" - CH - 225	S	
	2" - CH - 225	S	
3/4" - 355A	2" - CH - 225	S	
	PI - 190A	S	
3/4" - 359	3/4" - CH - 226	S	
	3/4" - CH - 226	S	
3/4" - ORIFICE	3/4" - CH - 226	S	
CSORBA1	3/4" - CH - 226	S	
1" - 358	1" - CH - 235	S	
	1" - CH - 235	S	
1" - 372	1" - CH - 236	S	
	1" - CH - 236	S	
2" - 1198A	2" - CH - 594	S	
	2" - CH - 594	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 1198B	2" - CH - 596	S	
	2" - CH - 596	S	
3/4" - C - 216	4" - CH - 298	S	
	VENT		
3/4" - C - 213	4" - CH - 298	S	
	VENT	S	
3" - 221B	3" - CH - 478	S	
	3" - CH - 478	S	
4" - 272B	4" - CH - 298	S	
	4" - CH - 298	S	
3/4" - 1175A	3/4" - CH - 517	S	
	3/4" - CH - 517	S	
3/4" - 1157C	SEAL WATER HEAT EXCHANGER #31	S	
	VENT	S	
3/4" - 1157D	SEAL WATER HEAT EXCHANGER #31	S	
	DRAIN	S	
3/4" - 224C	SEAL WATER HEAT EXCHANGER #31	S	
	VENT	S	
4" - 272A	4" - CH - 478	S	
	4" - CH - 478	S	
3/4"-C-215	4" - CH - 478	S	
	VENT	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
4" - 225	4" - CH - 478	S	
	4" - CH - 478	S	
3/4" - 396	4" - CH - 478	S	
	PI - 119	S	
3/4" - 224A	3/4" - CH - 858	S	
	3/8" - CH - 858	S	
3/4" - 224B	3/4" - CH - 114	S	
	3/4" - CH - 114	S	
3/4" - 395	4" - CH - 17	S	
	PI - 118	S	
4" - 223	4" - CH - 17	S	
	4" - CH - 17	S	
4" - 222 (MOV)	4" - CH - 17	S	
	4" - CH - 17	S	
	480V MCC 36A	S	
3" - 221A	3" - CH - 17	S	
	3" - CH - 17	S	
3/4" - 273	3/4" - CH - 219	S	
	3/4" - CH - 219	S	
3/4"-274	3/4" - CH - 219	S	
	3/4" - CH - 219	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 8108	3/4" - CH - 921	S	
	3/4" - CH - 921	S	
SRV - 231	3/4" - CH - 210	S	
(3/4" X 1")	1" - CH - 219	S	
4" - 278	4" - CH - 203	S	
	4" - CH - 203	S	
3/4" - 1175B	3/4" - CH - 243	S	
	3/4" - CH - 243	S	
1" - 275	1" - CH - 300	S	
	1" - CH - 300	S	
3/4" - C - 101	3" - CH - 217	S	
	VENT	S	
3" - 8100	3" - CH - 217	S	
	3" - CH - 217	S	
3" - 230	3" - CH - 217	S	
	3" - CH - 217	S	
3" - 8101	3" - CH - 215	S	
	3" - CH - 215	S	
3" - 232	3" - CH - 215	S	
	3" - CH - 215	S	
3/4" - 276	3/4" - CH - 220	S	
	3/4" - CH - 220	S	

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3/4" - 277	3/4" - CH - 220	S	
	3/4" - CH - 220	S	
3/4" - 8107	3/4" - CH - 922	S	
	3/4" - CH - 922	S	
SRV - 234	3/4" - CH - 213	S	
(3/4" X 1")	1" - CH 220	S	
4" - 283	4" - CH - 207	S	
	4" - CH - 207	S	
3/4" - 1175C	3/4" - CH - 242	S	
	3/4" - CH - 242	S	
1" - 279	1" - CH - 801	S	
	1" - CH - 801	S	
3/4" - C - 102	3" - CH - 214	S	
	VENT	S	
3" - 8103	3" - CH - 214	S	
	3" - CH - 214	S	
3" - 235	3" - CH - 214	S	
	3" - CH - 214	S	
3" - 8102	3" - CH - 212	S	
	3" - CH - 212	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3" - 233	3" - CH - 212	S	
	3" - CH - 212	S	
3/4" - 281	3/4" - CH - 218	S	
	3/4" - CH - 218	S	
3/4" - 291	3/4" - CH - 218	S	
	3/4" - CH - 218	S	
3/4" - 8106	3/4" - CH - 923	S	
	3/4" - CH - 923	S	
SRV - 237	3/4" - CH - 216	S	
(3/4" X 1")	1" - CH - 218	S	
4" - 284	4" - CH - 200	S	
	4" - CH - 200	S	
3/4" - 1175D	3/4" - CH - 241	S	
	3/4" - CH - 241	S	
1" - 280	1" - CH - 802	S	
	1" - CH - 802	S	
3/4" - C - 103	3" - CH - 19	S	
	VENT	S	
3" - 8104	3" - CH - 19	S	
	3" - CH - 19	S	
3" - 236	3" - CH - 19	S	
	3" - CH - 19	S	

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3" - 8105	3" - CH - 402	S	
	3" - CH - 402	S	
3" - 238	3" - CH - 402	S	
	3" - CH - 402	S	
3/4" - C - 113	3" - CH - 19	S	
	VENT	S	
3/4" - 229	3" - CH - 19	S	
	PT - 142	S	
3/4" - C - 114	3" - CH - 19	S	
	DRAIN	S	
FE - 128	3" - CH - 19	S	
	3" - CH - 19	S	
3/4" - 216	FE - 128	S	
	FT - 128	S	
3/4" - 217	FE - 128	S	
	FT - 128	S	
3" - 228	3" - CH - 19	S	
	3" - CH - 19	S	
3" - 227	3" - CH - 19	S	
	3" - CH - 19	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - C - 109	3" - CH - 19	S	
	DRAIN	S	
3" - HCV - 142	3" - CH - 19	S	
(AIR OPERT)	3" - CH - 19	S	
	INST. AIR	S	
SOL	118V INSTR. BUS #21	S	
3" - 226	3" - CH - 19	S	
	3" - CH - 19	S	
3" - 205	3" - CH - 19	S	
	3" - CH - 19	S	
3/4" - C - 107	3" - CH - 19	S	
	VENT	S	
3" - 374	3" - CH - 19	S	
	3" - CH - 19	S	
3/4" - C - 100	4" - CH - 402	S	
	VENT	S	
3/4" - C - 106	4" - CH - 402	S	
	DRAIN	S	
4" - 248	4" - CH - 402	S	
	4" - CH - 41	S	
2" - 249B	2" - CH - 402	S	
	2" - CH - 402	S	
3/8" - 1199A	3/8" - CH - 856	S	
	3/8" - CH - 856	S	

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3/8" - 1199B	3/8" - CH - 856	S	
	VENT	S	
3/4" - 239H	3/4" - CH - 553	S	
	DRAIN	S	
2" - 249D	2" - CH - 402	S	
	2" - CH - 402	S	
3/8" - 1199C	3/8" - CH - 857	S	
	3/8" - CH - 857	S	
3/8" - 1199D	3/8" - CH - 857	S	
	VENT	S	
3/4" - 239G	3/4" - CH - 551	S	
	DRAIN	S	
3/4" - 239J	4" - CH - 402	S	
	PIC - 189	S	
2" - 249A	2" - CH - 41	S	
	2" - CH - 41	S	
2" - 249C	2" - CH - 41	S	
	2" - CH - 41	S	
3/4" - 239K	2" - CH - 41	S	
	PIC - 189	S	
FE - 115	2" - CH - 44	S	
	2" - CH - 44	S	

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3/4" - 239D	FE - 115	S	
	FI - 115	S	
3/4" - 240D	FE - 115	S	
	FI - 115	S	
1" - 241D	1" - CH - 44	S	
	1" - CH - 44	S	
2" - 250D	2" - CH - 44	S	
	2" - CH - 44	S	
2" - 251H	2" - CH - 44	S	
	2" - CH - 44	S	
3/4" - C - 147	2" - CH - 44	S	
	VENT	S	
3/4" - C - 115	2" - CH -44	S	
	VENT	S	
2" - 251M	2" - CH - 44	S	
	2" - CH - 44	S	
2" - 251D	2" - CH - 44	S	
	2" - CH - 44	S	
3/4" - 254D	2" - CH - 44	S	
	VENT	S	
3/4" - 252D	3/4" - CH - 492	S	
	PT - 124	S	

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SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 253D	3/4" - CH - 493	S	
	PT - 124	S	
FE - 116	2" - CH - 43	S	
	2" - CH - 43	S	
3/4" - 239C	FE - 116	S	
	FI - 116	S	
3/4" - 240C	FE - 116	S	
	FI - 116	S	
1" - 241C	1" - CH - 43	S	
	1" - CH - 43	S	
2" - 250C	2" - CH - 43	S	
	2" - CH - 43	S	
2" - 251G	2" - CH - 43	S	
	2" - CH - 43	S	
3/4" - C - 117	2" - CH - 43	S	
	VENT	S	
3/4" - C - 118	2" - CH - 43	S	
	VENT	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2" - 251L	2" - CH - 43	S	
	2" - CH - 43	S	
2" - 251C	2" - CH - 43	S	
	2" - CH - 43	S	
3/4" - 254C	2" - CH - 43	S	
	VENT	S	
3/4" - 252C	3/4" - 490	S	
	PT - 131	S	
3/4" - 253C	3/4" - CH - 491	S	
	PT - 131	S	
FE - 143	2" - CH - 42	S	
	2" - CH - 42	S	
3/4" - 239B	FE - 143	S	
	FI - 143	S	
3/4" - 240B	FE - 143	S	
	FI - 143	S	
1" - 241B	1" - CH - 42	S	
	1" - CH - 42	S	
2" - 250B	2" - CH - 42	S	
	2" - CH - 42	S	
2" - 251F	2" - CH - 42	S	
	2" - CH - 42	S	

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3/4"-C-119	2"-CH-42	S	
	VENT	S	
2"-251K	2"- CH-42	S	
	2"-CH -42	S	
2"-251B	2"- CH-42	S	
	2"- CH-42	S	
3/4"-254B	2"- CH-42	S	
	VENT	S	
3/4"-252B	3/4"-CH -448	S	
	PT-145	S	
3/4"-253B	3/4"- CH-489	S	
	PT-145	S	
FE-144	2"-CH -41	S	
	2"-CH -41	S	

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3/4" - 239A	FE - 144	S	
	FI - 144	S	
3/4" - 240A	FE - 144	S	
	FI - 144	S	
1" - 241A	1" - CH - 41	S	
	1" - CH - 41	S	
2" - 250A	2" - CH - 41	S	
	2" - CH - 41	S	
2" - 251E	2" - CH - 41	S	
	2" - CH - 41	S	
3/4" - C - 121	2" - CH - 41	S	
	VENT	S	
3/4" - C - 122	2" - CH - 41	S	
	VENT	S	
2" - 251J	2" - CH - 41	S	
	2" - CH - 41	S	
2" - 251A	2" - CH - 41	S	
	2" - CH - 41	S	
3/4" - 254A	2" - CH - 41	S	
	VENT	S	

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3/4" - 252A	3/4" - CH - 486	S	
	PT - 147	S	
3/4" - 253A	3/4" - CH - 487	S	
	PT - 147	S	
3/4" - C - 145	3/4" - CH - 75	S	
	DRAIN	S	
3/4" - 255A	3/4" - CH - 75	S	
	VENT	S	
3/4" - ORIFICE	3/4" - CH - 75	S	
CSORSB14	3/4" - CH - 75	S	
3/4" - 256A	3/4" - CH - 75	S	
	3/4" - CH - 75	S	
3/4" - 257A	3/4" - CH - 75	S	
	3/4" - CH - 75	S	
3/4" - C - 132	3/4" - CH - 75	S	
	DRAIN	S	
3/4" - 258A	3/4" - CH - 75	S	
	3/4" - CH - 75	S	
3/4" - C - 146	2" - CH - 17A	S	
	DRAIN	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4" - 242A	2" - CH - 17A	S	
	VENT	S	
2" - 261A	2" - CH - 17A	S	
(AIR OPERT)	2" - CH - 17A	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	
3/4" - C - 138	2" - CH - 17A	S	
	DRAIN	S	
2" - 243A	2" - CH - 17A	S	
	2" - CH - 17A	S	
3/4" - 262A	3/4" - CH - 17A	S	
	3/4" - CH - 17A	S	
3/4" - C - 137	3/4" - CH - 17A	S	
	DRAIN	S	
3/4" - 245A	3/4" - CH - 17A	S	
	DRAIN	S	
3/4" - 244A	3/4" - CH - 17A	S	
	3/4" - CH - 17A	S	
3/4" - 259A	2" - CH - 17A	S	
	PT - 188	S	
3/4" - 260A	3/4" - CH - 75	S	
	PT - 188	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-C-144	3/4"-CH-76	S	
	DRAIN	S	
3/4"-255B	3/4"-CH -76	S	
	VENT	S	
3/4"-ORIFICE	3/4"-CH -76	S	
CSORSB-2	3/4"-CH -76	S	
3/4"-256B	3/4"-CH -76	S	
	3/4"-CH -76	S	
3/4"-257B	3/4"-CH -76	S	
	3/4"-CH -76	S	
3/4"-C-131	3/4"-CH -76	S	
	DRAIN	S	
3/4"-258B	3/4"-CH -76	S	
	3/4"-CH -76	S	
3/4"-C-139	2"-CH -17	S	
	DRAIN	S	
3/4"-242B	2"-CH -17	S	
	VENT	S	
2"-261B	2"-CH -17	S	
(AIR OPERT)	2"-CH -17	S	
	INST AIR	S	
SOL	125V DC PNL #32	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-C-130	2"-CH-17	S	
	DRAIN	S	
2"-243B	2"-CH-17	S	
	2"-CH-17	S	
3/4"-262B	3/4"-CH-17	S	
	3/4"-CH-17	S	
3/4"-C-129	3/4"-CH-17	S	
	DRAIN	S	
3/4"-245B	3/4"-CH-17	S	
	DRAIN	S	
3/4"-244B	3/4"-CH-17	S	
	3/4"-CH-17	S	
3/4"-259B	2"-CH-17	S	
	PT-187	S	
3/4"-260B	3/4"-CH-76	S	
	PT-187	S	
3/4"-C-141	3/4"-CH-77	S	
	DRAIN	S	
3/4"-255C	3/4"-CH-77	S	
	VENT	S	

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3/4"-ORIFICE	3/4"-CH-77	S	
CSORSB-3	3/4"-CH-77	S	
3/4"-256C	3/4"-CH-77	S	
	3/4"-CH-77	S	
3/4"-257C	3/4"-CH-77	S	
	3/4"-CH-77	S	
3/4"-C-133	3/4"-CH-77	S	
	DRAIN	S	
3/4"-258C	3/4"-CH-77	S	
	3/4"-CH-77	S	
3/4"-C-140	2"-CH-17B	S	
	DRAIN	S	
3/4"-242C	2"-CH-17B	S	
	VENT	S	
2"-261C	2"-CH-17B	S	
(AIR OPERT)	2"-CH-17B	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	
3/4"-C-120	2"-CH-17B	S	
	DRAIN	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2"-243C	2"-CH-17B	S	
	2"-CH-17B	S	
3/4"-262C	3/4"-CH-17B	S	
	3/4"-CH-17B	S	
3/4"-C-116	3/4"-CH-17B	S	
	DRAIN	S	
3/4"-245C	3/4"-CH-17B	S	
	DRAIN	S	
3/4"-244C	3/4"-CH-17B	S	
	3/4"-CH-17B	S	
3/4"-259C	2"-CH-17B	S	
	PT-186	S	
3/4"-260C	3/4"-CH-77	S	
	PT-186	S	
3/4"-C-143	3/4"-CH-78	S	
	DRAIN	S	
3/4"-255D	3/4"-CH-78	S	
	VENT	S	
3/4"-ORIFICE	3/4"-CH-78	S	
CSORSB-1	3/4"-CH-78	S	

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3/4"-256D	3/4"-CH-78	S	
	3/4"-CH-78	S	
3/4"-257D	3/4"-CH-78	S	
	3/4"-CH-78	S	
3/4"-C-126	3/4"-CH-78	S	
	DRAIN	S	
3/4"-258D	3/4"-CH-78	S	
	3/4"-CH-78	S	
3/4"-C-142	2"-CH-17C	S	
	DRAIN	S	
3/4"-242D	2"-CH-17C	S	
	VENT		
2"-261D	2"-CH-17C	S	
(AIR OPERT)	2"-CH-17C	S	
	INST AIR	S	
SOL	125V DC PNL #32	S	
3/4"-C-128	2"-CH-17C	S	
	DRAIN	S	
2"-243D	2"-CH-17C	S	
	2"-CH-17C	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-262D	3/4"- CH-17C	S	
	3/4"- CH-17C	S	
3/4"-C-127	3/4"- CH-17C	S	
	DRAIN	S	
3/4"-245D	3/4"-CH -17C	S	
	DRAIN	S	
3/4"-244D	3/4"-CH -17C	S	
	3/4"- CH-17C	S	
1"-246	1"- CH-17	S	
(AIR OPERT)	1"-CH-17	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	
3/4"-C-125	3/4"-CH -76	S	
	VENT	S	
3/4"-C-210	4"-CH-17	S	
	VENT	S	
SRV-218	3"-CH-17	S	
	4-38 (catII)	N	3-M-11
3/4"-C-204	1"-CH-98	S	
	VENT	S	

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SAFETY RELATED COMPONENT VALVES	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-C-206	1"- CH-98	S	
	DRAIN	S	
1"-215	1"- CH-98	S	
(AIR OPERT	1"- CH-98	S	
3 WAY VALVE)	3/4"-412	S	
	INST AIR	S	
SOL	125V DC PNL #31	S	
1"-CH-97	1"-400	S	
	1"-213A	S	
	1"-213B	S	
	EXCESS LETDOWN HEAT EXHANGER #31	S	

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SAFETY RELATED COMPONENT (Lines)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3"-CH-79	Letdown line from RCS loop 1 cold leg	S	
	Regenerative Heat exchange # 31	S	
	342	S	
	LCV - 459	S	
	LCV - 460	S	
	C - 110	S	
	C - 111	S	
3"-CH-96	210 D	S	
	210 B	S	
	204 B	S	
	Charging line loop 1 cold leg	S	
	LN - 3"- CH - 80	S	
3"-CH-80	210 C	S	
	210 A	S	
	204 A	S	
	C-112	S	
	TE-126	S	
	Regenerative Heat exchanger # 31	S	
	Charging line to RCS loop 2 hot leg	S	
	LN - 3" - CH - 96	S	
	LN - 2" - CH - 64	S	
2"-CH-64	Auxiliary Spray to RCS	S	
	2" - 211	S	
	2" - 212	S	
	LN - 3" CH - 80	S	

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SAFETY RELATED COMPONENT (Lines)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3"-CH-27	3/4" - C - 108	S	
	TE - 127	S	
	Regenerative Heat exchanger # 31	S	
	LN - 2" - CH - 27	S	
2"-CH-27	2" Letdown Orifice 31, 32, 33	S	
	C - 123	S	
	200 A	S	
	200 B	S	
	200 C	S	
	SRV - 203	S	
	C - 124	S	
	HCV - 133	S	
	201	S	
	202	S	
	C - 135	S	
	Non-Regen. Heat exch. # 31	S	
	LN - 3" - CH - 27	S	
3/4"-WD-545	1158 D	S	
	Non-Regen. Heat exchanger # 31	S	
	Waste Holdup Tank	S	

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2"-CH-99	C - 136	S	
	206	S	
	TE - 130	S	
	TIC - 149	S	
	207	S	
	PT - 135	S	
	FE - 134	S	
	208	S	
	209	S	
	FT - 134	S	
	PCV - 135	S	
	974 B	S	
	Non-Regen. Heat exchanger # 31	S	
	LN - 3" - CH - 99	S	
3"-CH-99	TCV - 149	S	
	974 A	S	
	307	S	
	PT - 137	S	
	305	S	
	Reactor coolant filter # 31	S	
	303	S	
	PT - 138	S	
	302	S	
	LCV - 112 A	S	
	357	S	
	Volumn control tank # 31	S	
	LN - 2" - CH - 169	S	
	LN - 2" - CH - 140	S	
	LN - 3" - CH - 120	S	
	LN - 2" - CH - 3000	S	
	LN - 3" - CH - 299	S	

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	LN - 3/4" - CH - 847	S	
	LN - 3/4" - CH - 244	S	
	LN - 2" - CH - 116	S	
	LN - 2" - CH - 170	S	
3"-CH-299	LN - 3" - CH - 99	S	
	306	S	
3/4"-CH-847	Vent	S	
	304 A	S	
	Reactor Coolant Filter # 31	S	
3/4"-CH-244	Reactor Coolant Filter # 31	S	
	304 B	S	
	Waste Holdup Tank	S	
3"-CH-120	LN - 3" - CH - 99	S	
	LN - 2" - CH - 316	S	
	310	S	
2"-CH-316	LN - 3" - CH - 120	S	
	313	S	
2"-CH-169	LN - 3" - CH - 99	S	
	SRV - 263	S	
	LN - 1" - CH - 375	S	
	LN 3/4" - CH - 218	S	
	LN - 4" - CH - 298	S	

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1"-CH-375	969	S	
	LN - 3" - CH - 169	S	
4"-CH-298	Volume Control Tank	S	
	LN - 3/8" - SL - 839	S	
	C - 216	S	
	C - 213	S	
	TI - 120	S	
	LN - 3" - 478	S	
	272 B	S	
	LN 3/4" - 517	S	
	Seal Water Heat Exch.	S	
3"-CH-478	LN - 4" - CH - 298	S	
	221 B	S	
	LN - 4" CH - 478	S	
3/4"-CH-218	LN - 3" - CH - 169	S	
	LN - 3/4" - CH - 219	S	
	LN - 3/4" - CH - 220	S	
	LN - 3/4" - CH - 923	S	
	LN - 1" - CH - 218	S	
	281	S	
	291	S	
2"-CH-170	LN - 3" - CH - 99	S	
	LN - 3/4" - CH - 870	S	
	FCV - 111 B	S	
	LN - 2" - CH - 202	S	

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3/4"-CH-870	LN - 2" - CH - 170	S	
	1298 A	S	
	1299 A	S	
2"-CH-755	Volume Control Tank # 31	S	
	299 A	S	
	1295 A	S	
	299 B	S	
	1295 B	S	
2"-CH-250	Volum Control Tank # 31	S	
	266 A	S	
	LN - 3/4" - CH - 436	S	
	LN - 3/4" - CH - 448	S	
	SRV - 264	S	
3/4"-CH-448	975	S	
	266 B	S	
	PCV - 113 B		
	266 C		
3/4"-CH-436	LN - 2" - CH - 250	S	
	266 D	S	
	265	S	
	PCV - 193 A	S	

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1"-CH-115	Volume Control Tank # 31	S	
	Valve 271	S	
	LN - 1" - CH - 162	S	
1"-CH-162	PCV - 113 A	S	
4"-CH-200	Volume Control Tank # 31	S	
	TE - 140	S	
	LN - 1" - CH - 201	S	
	LCV - 112 C	S	
	LN - 2" - CH - 202	S	
	292	S	
	C - 211	S	
	LN - 1" - CH - 204	S	
	LN - 4" - CH - 203	S	
	LN - 4" - CH - 205	S	
	LN - 4" - CH - 206	S	
	LN - 4" - CH - 207	S	
	LN - 2" - CH - 208	S	
	284	S	
	LN - 3/4" - CH - 241	S	
	Charging Pump # 33	S	
1"-CH-201	LN - 4" - CH - 200	S	
	298	S	

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INTERFACING COMPONENTS

SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2"-CH-202	LN - 4" - CH - 200	S	
	297	S	
	LN - 3/4" - CH - 872	S	
	FCV - 110 B	S	
	LN - 2" - CH - 253	S	
	LN - 2" - CH - 170	S	
	LN - 3/4" - CH - 870	S	
	1298 E	S	
	Boric Acid Blender	S	
3/4-CH-872	LN - 2" - CH - 202	S	
	1298 B	S	
	1299 B	S	
2"-CH-253	LN - 2" - CH - 202	S	
	295	S	
	294	S	
	350	S	
3/4"-CH-870	LN - 2" - CH - 202	S	
	296	S	
	1299 F	S	
2"-CH-430	Boric Acid Blender	S	
	327	S	
	FCV - 111 A	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
1"-CH-204	LN - 4" - CH - 200	S	
	LN - 1" - CH - 254	S	
	LN - 3/4" - CH - 873	S	
	293	S	
	Boric Acid Blender	S	
1"-CH-254	LN - 1" CH - 204	S	
	247	S	
	282	S	
3/4"-CH-873	LN - 1" - CH - 204	S	
	1298 C	S	
	1299 C	S	
4"-CH-203	LN - 4" - CH - 200	S	
	278	S	
	LN - 3/4" - CH - 243	S	
	Charging Pump # 31	S	
3/4"-CH-243	LN - 4" CH - 203	S	
	1175 B	S	
4"-CH-205	LN - 4" CH - 200	S	
	LCV - 112 B	S	
	290	S	
	LN - 4" - CH - 206	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
4"-CH-206	LN - 4" - CH - 200	S	
	288	S	
	LN - 4" - CH - 205	S	
4"-CH-207	LN - 4" - CH - 200	S	
	283	S	
	LN - 3/4" - CH - 242	S	
	Charging Pump # 32	S	
3/4"-CH-242	LN - 4" - CH - 207	S	
	1175 C	S	
3/4"-CH-241	LN - 4" - CH - 200	S	
	1175 D	S	
2"-CH-208	LN - 4" - CH - 200	S	
	331	S	
	LN - 3/4" - CH - 870	S	
	332	S	
	333	S	
	C - 202	S	
	LN - 2" - CH - 204	S	
	LN - 1" - CH - 204	S	
	LN - 2" - CH - 393	S	
2"-CH-393	LN - 2" - CH - 208	S	
	330	S	
3/4"-CH-870	LN - 2" - CH - -08	S	
	1298 D	S	
	1299 D	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
1"-CH-204	328	S	
	FCV - 110 A	S	
	C - 203	S	
	329	S	
	FT - 110	S	
	LN - 2" - CH - 208	S	
2"-CH-204	LN - 2" - CH - 284	S	
	LN - 2" - CH - 208	S	
	LN - 2" - CH - 228	S	
	334	S	
	399 B	S	
	Boric Acid Filter	S	
2"-CH-284	LN - 2" CH - 204	S	
	1197	S	
2"-CH-228	LN - 2" - CH - 204	S	
	267 A	S	
	LN - 2" - CH - 251	S	
	LN - 2" - CH - 225	S	
2"-CH-251	LN - 2" - CH - 228	S	
	267 B	S	
	LN - 2" - CH - 230	S	
2_-CH-227	Boric Acid Filter # 31	S	
	336	S	
	399 C	S	
	360	S	
	LN - 2" - CH - 232	S	
	LN - 2" - CH - 225	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2"-CH-232	LN - 2" - CH - 227	S	
	370	S	
	LN - 2" - CH - 230	S	
2"-CH-225	Boric Acid Tank # 31	S	
	HCV - 105	S	
	LN - 3/4" - CH - 226	S	
	361	S	
	362 A	S	
	355 A	S	
	Boric Acid Transfer Pump # 31	S	
3/4"-CH-226	LN - 2" - CH - 225	S	
	359	S	
3"-CH-237	Boric Acid Tank # 31	S	
2"-CH-221	Boric Acid Tank # 31	S	
	LN - 3/4" - CH -222	S	
	337	S	
	367 A	S	
	364	S	
	LN - 2" CH - 224	S	
	Boric Acid Transfer Pump # 31	S	
2_-CH-224	LN - 2" - CH - 221	S	
	263	S	
2"-CH-594	LN - 1" - CH - 235	S	
	1198 A	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
1"-CH-235	Boric Acid Tank # 31	S	
	358	S	
	LN - 2" - CH - 594	S	
2"-CH-596	LN - 1" - CH - 236	S	
	1198 B	S	
1"-CH-236	Boric Acid Tank # 32	S	
	372	S	
	LN - 2" - CH - 596	S	
2"-CH-230	Boric Acid Tank # 32	S	
	LN - 3/4" - CH - 231	S	
	LN - 2" - CH - 251	S	
	369	S	
	LN - 2" - CH - 232	S	
	362 B	S	
	355 B	S	
3/4"-CH-231	LN - 2" - CH - 230	S	
	371	S	
2"-CH--29	Boric Acid Tank # 32	S	
	375	S	
	373	S	
	367 B	S	
	366	S	
	365	S	
	Boric Acid Tranfer Pump # 32	S	
	LN - 2" - CH - 224	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2"-CH-224	365	S	
	LN - 2" - CH - 229	S	
4"-CH-478	LN - 3" - CH - 478	S	
	272 A	S	
	Seal Water Heat Exch # 31	S	
	LN - 3" - CH - 17	S	
	225	S	
	396	S	
	Seal Water Filter # 31	S	
3"-CH-17	LN - 4" - CH - 478	S	
	221 A	S	
4"-CH-17	Seal Water Filter # 31	S	
	395	S	
	223	S	
	3" - CH - 17	S	
	222	S	
	C - 210	S	
	LN - 1" - CH - 98	S	
	SRV - 218	S	
3/4"-CH-585	224 A	S	
	Seal Water Filter # 31	S	
	Vent	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-CH-114	Boric Acid Filter # 31	S	
	224 B	S	
1"-CH-98	LN - 4" - CH - 17	S	
	C - 204	S	
	C - 206	S	
	215	S	
	TE - 122	S	
	214	S	
	HCV - 123	S	
	C - 134	S	
	Excess Letdown Heat Exchanger # 31	S	
1"-CH-97	Letdown Line from RCS Loop 1	S	
	213 B	S	
	Excess Letdown Heat Exchanger # 31	S	
	213 A	S	
	400	S	
1"-CH-17	LN - 4" - CH - 17	S	
	246	S	
	LN - 3/4" - CH - 78	S	
	LN - 3/4" - CH - 76	S	
3/4"-CH-219	LN - 3/4" CH - 218	S	
	273	S	
	274	S	
	LN - 3/4" - CH - 921	S	
	LN - 1" CH - 219	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-CH-921	LN - 3/4". CH - 219	S	
	8108	S	
	LN - 3" - CH - 217	S	
	LN - 3/4" - CH - 210	S	
3/4"-CH-210	LN - 3/4" - CH - 921	S	
	SRV - 231	S	
	LN - 1" - CH - 219	S	
3/4"-CH-220	LN - 3/4" - CH - 218	S	
	276	S	
	277	S	
	LN - 3/4" - CH - 922	S	
	LN - 1" - CH - 220	S	
1"-CH-220	LN - 3/4" - CH - 220	S	
	SRV - 234	S	
	LN - 3/4" - CH - 213	S	
3/4"-CH-213	LN - 3/4" - CH - 922	S	
	SRV - 234	S	
3/4"-CH-922	LN - 3/4" - CH - 220	S	
	8107	S	
	LN - 3/4" - CH - 213	S	
	LN - 3" - CH - 214	S	
1"-CH-218	LN - 3/4" - CH - 218	S	
	SRV - 237	S	
	LN - 3/4" - CH - 216	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-CH-216	SRV - 237	S	
	LN - 1" - CH - 218	S	
	LN - 3/4" - CH - 923	S	
3/4"-CH-923	LN - 3/4" - CH - 218	S	
	8106	S	
	LN - 3/4" - CH - 216	S	
	LN - 3" - CH - 19	S	
3"-CH-217	Charging Pump # 31	S	
	LN - 3/4" - CH - 921	S	
	C - 101	S	
	LN -3" - CH -215	S	
	230	S	
	8100	S	
	LN - 3" - CH - 19	S	
3"-CH-214	Charging Pump # 32	S	
	LN - 3/4" - CH - 922	S	
	C - 102	S	
	LN - 3" - CH -212	S	
	8103	S	
	235	S	
	LN - 3" - CH -19	S	
3"-CH-215	LN - 3" - CH - 217	S	
	8101	S	
	232	S	
	LN - 4" - CH - 402	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3"-CH-212	LN - 3" - CH - 214	S	
	8102	S	
	233	S	
	LN - 4" - CH - 402	S	
3"-CH-19	Charging Pump # 33	S	
	LN - 3/4" - CH - 923	S	
	C - 103	S	
	LN - 3" - CH - 402	S	
	8104	S	
	236	S	
	C - 113	S	
	LN - 3" - CH - 214	S	
	LN - 3" - CH - 217	S	
	229	S	
	C - 114	S	
	RE - 128	S	
	216	S	
	217	S	
	228	S	
	C - 109	S	
	HCV - 142	S	
	226	S	
	227	S	
	205	S	
	C - 107	S	
	374	S	
	Regenerative Heat Exchanger # 31	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3"-CH-402	LN - 3" - CH - 19	S	
	8105	S	
	238	S	
	LN - 4" - CH - 402	S	
4"-CH-402	LN - 3" - CH - 402	S	
	LN - 3" - CH - 212	S	
	LN - 3" - CH - 215	S	
	C - 100	S	
	C - 106	S	
	2395	S	
	248	S	
	LN - 4" - CH - 41	S	
	LN - 2" - CH - 402	S	
2"-CH-402	LN - 4" - CH - 402	S	
	249 B	S	
	Seal Injection Filter # 31	S	
	249 D	S	
	Seal Injection Filter # 32	S	
3/8"-CH-857	Seal Injection Filter # 32	S	
	1199 C	S	
	1199 D	S	
3/4"-CH-551	Seal Injection Filter # 32	S	
	2396	S	
3/8"-CH-856	Seal Injection Filter # 31	S	
	1199 A	S	
	1199 B	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-CH-553	Seal Injection Filter # 31	S	
	239 H	S	
2"-CH-41	Seal Injection Filter # 31	S	
	Seal Injection Filter # 32	S	
	249 C	S	
	249 A	S	
	LN - 4" - CH - 41	S	
4"-CH-41	LN - 2" - CH - 41	S	
	239 K	S	
	LN - 4" - CH - 402	S	
	LN - 2" - CH - 44	S	
	LN - 2" - CH - 43	S	
	LN - 2" - CH - 42	S	
	LN - 2" - CH - 41	S	
2"-CH-44	LN - 4" - CH - 41	S	
	FE - 115	S	
	239 D	S	
	240 D	S	
	LN - 1" - CH - 44	S	
2"-CH-43	LN - 4" - CH - 41	S	
	FE 116	S	
	239 C	S	
	240 C	S	
	LN - 1" - CH - 43	S	

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SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
2"-CH-42	LN - 4" - CH - 41	S	
	FE - 143	S	
	239 B	S	
	240 B	S	
	LN - 1" - CH - 42	S	
2"-CH-41	LN - 4" - CH - 41	S	
	FE - 144	S	
	239 A	S	
	240 A	S	
	LN - 1" - CH - 41	S	
1"-CH-44	LN - 2" - CH - 44	S	
	241 D	S	
2"-CH-44	LN - 1" - CH - 44	S	
	250 D	S	
	251 H	S	
	C - 147	S	
	C - 115	S	
	251 M	S	
	254 D	S	
	Reactor Coolant Pump # 34	S	
1"-CH-43	LN - 2" CH - 43	S	
	241 C	S	

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2"-CH-43	LN - 1" - CH -43	S	
	250 C	S	
	251 G	S	
	C - 118	S	
	C - 117	S	
	251 L	S	
	251 C	S	
	254 C	S	
	Reactor Coolant Pump # 33	S	
1"-CH-42	LN - 2" - CH - 42	S	
	241 B	S	
2"-CH-42	LN - 1" - CH -42	S	
	250 B	S	
	251 F	S	
	C - 119	S	
	251 K	S	
	251 B	S	
	254 B	S	
	Reactor Coolant Pump # 32	S	
1"-CH-41	LN - 2" - CH - 41	S	
	241 A	S	

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2"-CH-41	LN - 1" - CH - 41	S	
	250 A	S	
	251 E	S	
	C - 122	S	
	C - 121	S	
	251 J	S	
	251 A	S	
	254 A	S	
	Reactor Coolant Pump 3 #1	S	
3/4"-CH-486	Reactor Coolant Pump # 31	S	
	252 A	S	
	253 A	S	
	PT - 147	S	
3/4"-CH-488	Reactor Coolant Pump # 32	S	
	252 B	S	
	253 B	S	
	PT - 145	S	
3/4'-CH-490	Reactor Collant Pump # 33	S	
	252 C	S	
	253 C	S	
	PT - 131	S	
3/4"-CH-492	Reactor Collant Pump # 34	S	
	252 D	S	
	253 D	S	
	PT - 124	S	

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2"-CH-17 A	Reactor Collant Pump # 31	S	
	C - 146	S	
	242 A	S	
	259 A	S	
	PT - 188	S	
	261 A	S	
	LN - 3/4" - CH - 17 A	S	
	C - 138	S	
	243 A	S	
	LN - 3" - CH - 17	S	
3/4"-CH-17 A	LN - 2" - CH - 17 A	S	
	262 A	S	
	FIT - 159 A	S	
	C - 137	S	
	FIT - 159 B	S	
	245 A	S	
	244 A	S	
3/4"-CH-75	Reactor Coolant Pump # 31	S	
	C - 145	S	
	255 A	S	
	260 A	S	
	PT - 188	S	
	256 A	S	
	257 A	S	
	C - 132	S	
	FIC - 176	S	
	258 A	S	
	LN - 3/4" - CH - 76	S	

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2"-CH-17	Reactor Coolant Pump # 32	S	
	C - 139	S	
	242 B	S	
	259 B	S	
	PT - 187	S	
	261 B	S	
	C - 130	S	
	243 B	S	
	LN - 3/4" - CH - 17	S	
	LN - 3" - CH - 17	S	
3/4"-CH-17	LN - 2" - CH - 17	S	
	262 B	S	
	FIT - 158 A	S	
	C - 129	S	
	FIT - 158 B	S	
	245 B	S	
	244 B	S	
3"-CH-17	LN - 2" - CH - 17	S	
	LN - 2" - CH - 17 A	S	
	LN - 4" - CH - 17	S	

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3/4"-CH-76	Reactor Coolant Pump # 32	S	
	C - 144	S	
	255 B	S	
	260 B	S	
	PT - 187	S	
	256 B	S	
	257 B	S	
	C - 131	S	
	FIC - 172	S	
	258 B	S	
	LN - 3/4" - CH - 75	S	
	C - 125	S	
	LN - 1" - CH - 17	S	
2"-CH-17B	Reactor Collant Pump # 33	S	
	C - 140	S	
	242 C	S	
	259 C	S	
	PT - 186	S	
	261 C	S	
	LN - 3/4" - CH - 17B	S	
	C - 120	S	
	243 C	S	
	LN - 3" - CH - 17	S	
3/4"-CH-17B	LN - 2" - CH - 17B	S	
	262 C	S	
	FIT - 157 A	S	
	C - 116	S	
	FIT - 157 B	S	
	245 C	S	
	244 C	S	

J.L. Rodriguez 9/2/82
PREPARED BY/DATE

T.P. Ruggiero 7/15/82
APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-CH-77	Reactor Coolant Pump # 33	S	
	C - 141	S	
	255 C	S	
	260 C	S	
	PT - 186	S	
	256 C	S	
	257 C	S	
	C - 133	S	
	FIC - 171	S	
	258 C	S	
	LN - 3/4" - CH - 78	S	
3"-CH-17	LN - 2" - CH - 17B	S	
	LN - 2" - CH - 17 C	S	
	LN - 4" - CH - 17	S	
2"-CH-17C	Reactor Coolant Pump # 34	S	
	C - 142	S	
	242 D	S	
	259 D	S	
	PT - 183	S	
	261 D	S	
	C - 128	S	
	LN - 3/4" - CH - 17C	S	
	243 D	S	
	LN - 3" - CH - 17	S	

J.L. Rodriguez 9/2/82
PREPARED BY/DATE

T.P. Ruggiero 7/15/82
APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT (LINES)	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
3/4"-CH-17 C	LN - 2" - CH - 17 C	S	
	262 D	S	
	FIT - 156 A	S	
	C - 127	S	
	FIT - 156 B	S	
	245 D	S	
	244 D	S	
3/4"-CH-78	Reactor Coolant Pump # 34	S	
	C - 143	S	
	255 D	S	
	260 D	S	
	PT - 183	S	
	256 D	S	
	257 D	S	
	C - 126	S	
	FIC - 166	S	
	258 D	S	
	LN - 3/4" - CH - 77	S	
	LN - 1" - CH - 17	S	

J.L. Rodriguez 9/2/82
PREPARED BY/DATE

T.P. Ruggiero 7/15/82
APPROVED BY/DATE

Ebasco Services Incorporated

NON-CONNECTED INTERACTIONS EVALUATION

1.	No Interaction	-	Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
2.	Acceptable	-	Source pipe/conduit is equal size or smaller in diameter and/or the same thickness or thinner wall than the target pipe/conduit/tubing. Paragraph 6.2.2.1a Volume I.
3.	Acceptable	-	Source has insufficient mass to damage the target component.
4.	Acceptable	-	Basis is engineering judgement. Specific justification is on the evaluation form.
5.	Potentially Unacceptable	-	Discussion of specific is on the evaluation form.
6.	Potentially Unacceptable	-	Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
7.	Potentially Unacceptable	-	Source will fall a sufficient distance, or has adequate mass such that damage to target conduit/box/instrument/tubing/panel may be possible.
8.	No Interaction	-	Upon further investigation of the source, this portion of its system is designated Seismic I.

R2 7/22/82
R1 6/30/82
R0 6/26/82

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
SYSTEMS INTERACTION EVALUATION

SYSTEM NO. 3

SYSTEM NAME CHEMICAL & VOLUME CONTROL SYSTEM

EVALUATION CATEGORY

NON-CONNECTED _____

INTERCONNECTED X

9-22-82
INTERACTION ENGINEER/DATE

W A Griswold 9-27-82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-1

CONNECTED COMPONENT: Line 3"-RC-38A

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve SRV-203

POSTULATED FAILURE (SEE NOTES): 2
METHOD OF DETECTION:

EVALUATION OF INTERACTION: Valve is the shell side relief for the Regen. Heat Exchanger. The discharge line is normally dry.

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

T P Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-2

CONNECTED COMPONENT: 3/8"-SS-296

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve 3/4"-974B

POSTULATED FAILURE (SEE NOTES): 2
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Line is to the sampling system Valve 974B is normally open. Interaction needs to be further evaluated.

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
T. P. Ruggiero 9/22/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-3

CONNECTED COMPONENT: Line 1"-CH-115

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve #271

POSTULATED FAILURE (SEE NOTES): 1
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Valve 271 is normally closed and hence isolates postualted rupture of the Nitrogen Line #271.

X ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

T P Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION NUMBER: 3-M-4

CONNECTED COMPONENT: 3/8"-SS-297

BOUNDARY SAFETY RELATED COMPONENT (S): Valve 3/4-975

POSTULATED FAILURE (SEE NOTES): 2
METHOD OF DETECTION:

EVALUATION OF INTERACTION: Sampling line from volume control tank gas space. Valve is normally open. Interaction needs to be further evaluated.

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-5

CONNECTED COMPONENT: Line 3/8-CH-870

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve 3/8 1299A
Valve 3/8 1299F

POSTULATED FAILURE (SEE NOTES): 1
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Valves 1299A and 1299F are normally closed.

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-6

CONNECTED COMPONENT: 3/8"-CH-872

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve 3/8" 1299B

POSTULATED FAILURE (SEE NOTES): 1
METHOD OF DETECTION:

EVALUATION OF INTERACTION: Valve 1299B is normally closed.

X ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-7

CONNECTED COMPONENT: 3/8-CH-874

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve 3/8 1299E

POSTULATED FAILURE (SEE NOTES): 1
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Same as 3-M-5

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-8

CONNECTED COMPONENT: 3/8-CH-873

BOUNDARY SAFETY RELATED
COMPONENT (S): 3/8-1299C

POSTULATED FAILURE (SEE NOTES): 1
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Valve 1299C is normally closed

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-9

CONNECTED COMPONENT: 1"-CH-254

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve 1"-282

POSTULATED FAILURE (SEE NOTES): 2
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Valve 282 is normally closed.

X ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-10

CONNECTED COMPONENT: Line 2"-CH-224

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve 2"-363
Valve 2"-365

POSTULATED FAILURE (SEE NOTES): 2
METHOD OF DETECTION:

EVALUATION OF INTERACTION: Line is primary water makeup to the boric acid tanks. Both valves are normally closed.

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
INTERCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

POTENTIAL INTERACTION
NUMBER: 3-M-11

CONNECTED COMPONENT: 4"-38

BOUNDARY SAFETY RELATED
COMPONENT (S): Valve SRV-218

POSTULATED FAILURE (SEE NOTES): 2
METHOD OF DETECTION: NA

EVALUATION OF INTERACTION: Valve is normally closed. Line 38 is normally dry.

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

T. P. Ruggiero 9/22/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
MATRIX PREPARATION

SYSTEM NO 3

SYSTEM NAME CHEMICAL & VOLUME CONTROL SYSTEM

MATRIX CATEGORY

NON-CONNECTED X

INTERCONNECTED

PREPARED BY/DATE 8/9/82

APPROVED BY/DATE 8/27/82

Ebasco Services Incorporated

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 1" WD-VENT LINE	2 6"-STANDPIPE	3 2"-71	4 3/4"-381	5 3/4"-661	6 1"-71	7 1"-377	8 2"-Oil Pipe				
1	2"-CH-41		M122			M123								
2	3/4"-CH-486	X												
3	3/4"-CH-487	X												
4	3"-CH-96	X												
5	3"-CH-79			M370	M370									
6	3/4"-CH-75					M123	M125	M125		M129				
7	2"-CH-17A		M126 M127			M123	M125	M125	M126					
8	2"-CH-41	X												

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION: QUADRANT I-EL-46'-0
WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR
DATE CH.
SCALE NONE

APPROVED
T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3

SH 1 OF 33

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 SPEAKER	2 4"-628	3 3/4"-412	4 SPEAKER	5 3/4"-381	6 1" WD VENT	7 2" OIL PIPE	8 2" #72	9 6" #72	10 1" #72	11 3/4"-662	12 3/4"-382	13 1" #378
9	1"-CH-98	X													
10	1"-CH-97			M227	M236										
11	2"-CH-17A						M131	M131	M138	M131	M131	M133	M133		
12	2"-CH-17A						M134 M123 M139	M128 M126	M138						
13	3/4"-CH-75						M134 M123 M139								
14	3/4"-CH-76						M131	M131	M132 M138	M131	M131	M133	M133		
15	2"-CH-42						M135		M138	M140	M140	M140		M135	M135
16	3/4"-CH-488	X													
17	3/4"-CH-489	X													
18	3"-CH-19	X													
19	2"-CH-64	X													
20	3"-CH-80			M227	M228	M228									
21	3"-CH-96	X													
22	3"-CH-79		M226			M236									
23	3"-CH-27	X													
24	2"-CH-41						M135		M138					M135	M135

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 2 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		

SOURCES

L-3	LINES	NO INTERACTION	1 3"- -552	2 2"- -338	3 2"- 34									
25	4"-CH-17				M234									
26	1"-CH-98		M231	M231										
27	1"-CH-17				M234									
28	3"-CH-17				M234									
29	2"-CH-17C	X												
30	3/4"-CH-17C	X												
31	1"-CH-17C	X												
32	2"-CH-17B	X												
33	3/4"-CH-17B	X												
34	1"-CH-17B	X												
35	2"-CH-17A	X												
36	1"-CH-17A	X												
37	2"-CH-17	X												
38	3/4"-CH-17	X												
39	3/4"-CH-76	X												
40	3/4"-CH-75	X												

TARGETS

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL.-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 3 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 3"-38A	2 3"-552	3 2"-338	4 1"-507	5 2"-34							
41	3/4"-CH-78		M229											
42	3/4"-CH-77		M229											
43	2"-CH-41						M233 M234							
44	2"-CH-42						M233 M234							
45	2"-CH-43	X												
46	2"-CH-44	X												
47	3"-CH-19					M232								
48	3"-CH-27													
49	2"-CH-27		M230	M231	M231									
50	2"-CH-29			M231	M231									

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL.-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3

SH 4 OF 33

SOURCES

TARGETS	LINES	NO INTERACTION	1	2	3	4	5							
L-3			1" WDS VENT	3/4"-#383	VLV #553C	3/4"-#663	1"-#73							
51	1½"-CH-43	X												
52	3/4"-CH-490	X												
53	3/4"-CH-491	X												
54	2"-CH-17B		M173 M141	M173 M142	M142	M169	M169							
55	3/4"-CH-77		M141											
56	2"-CH-43		M173	M173		M143								

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 70A

LOCATION: QUADRANT III-EL-46'-0
WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 5 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 1" WD VENT	2 1" #383	3 3/4" #664	4 1" #74	5 1½" OIL PIPING	6 2" #74						
57	2"-CH-17B	X												
58	2"-CH-17C		M175	M175	M176	M176								
59	3/4"-CH-77	X												
60	3/4"-CH-78		M175	M175	M176	M176	M177							
61	2"-CH-44				M182			M182						
62	3/4"-CH-492				M182			M182						
63	3/4"-CH-493				M182			M182						
64	2"-CH-43		M175	M175 M180										
65	2"-CH-64	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 70A

LOCATION: QUADRANT-IV-EL-46'-0

WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 6 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		

SOURCES

TARGETS

L-3	LINES	NO INTERACTION												
66	2"-CH-17B	X												
67	2"-CH-17C	X												
68	3/4"-CH-77	X												
69	3/4"-CH-78	X												

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: REACTOR CONTAINMENT BUILDING
FIRE ZONE: 77A
LOCATION WITHIN FIRE ZONE: QUADRANT-IV-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 7 OF 33
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE APPROVED T. P. RUGGIERO		

SOURCES

TARGETS

L-3	LINES	NO INTERACTION												
70	2"-CH-41	X												
71	2"-CH-42	X												
72	2"-CH-43	X												
73	2"-CH-44	X												

INCHES 0 1 2 3 4 5 6
CM. 0 1 2 3 4 5

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 84A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3
DIV. MECH DR. JLB DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	SH 8 OF 33

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 LIGHT FIX.	2 LIGHT FIX.	3 2"-CONDUIT	4 3"-STEAM GEN. BLOWDOWN LIN.	5 3/8"-24	6 3/8"-30	7 1"-67	8 1"-WD-572	9 EMERGENCY LIGHT			
74	3"-CH-19				M343					M336	M337			
75	4"-CH-17									M336	M337			
76	2"-CH-27		M342							M336	M337			
77	2"-CH-41	X												
78	2"-CH-42	X												
79	2"-CH-43	X												
80	2"-CH-44	X												
81	4"-CH-41					M336	M336	M336	M336					

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION: PIPING PENETRATION WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 9 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		

SOURCES

TARGETS

L-3	LINES	NO INTERACTION
82	3"-CH-19	X
83	4"-CH-41	X

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 61A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 10 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION												
84	3"-CH-19	X												
85	4"-CH-402	X												

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 58A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 11 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		

SOURCES

TARGETS	LINES	NO INTERACTION
L-3		
86	2"-CH-27	X

BUILDING: NA

FIRE ZONE: NA

LOCATION : PIPE TUNNEL

WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 12 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 18" - 389	2 1" - City Water										
87	2"-CH-27		M 445	M 445										
88	4"-CH-298	X												
89	4"-CH-478	X												
90	3"-CH-120	X												

BUILDING: Primary Auxiliary Building

FIRE ZONE: _____

LOCATION WITHIN FIRE ZONE: PIPE CHASE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 13 OF 33
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	LINES	NO INTERACTION	1 2" - 592	2 3/8" - 665	3 3/4" - 450	4 2" - 136	5 3" - 40							
L-3														
91	3"-CH-19						M428							
92	4"-CH-402			M344		M345	M428							
93	4"-CH-41			M344		M345								
94	2"-CH-27	X												
95	4"-CH-478		M344	M344	M344	M345								
96	3"-CH-120	X												

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 5A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 14 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	LINES L-3	NO INTERACTION	1 LIGHT FIX.											
97	3"-CH-19	X												
98	3/4"-CH-218		M367											
99	4"-CH-402	X												
100	4"-CH-203		M367											
101	3"-CH-215		M367											
102	3"-CH-217		M367											
103	3/4"-CH-210		M367											
104	1"-CH-219		M367											
105	3/4"-CH-921		M367											
106	3/4"-CH-219		M367											
107	3/4"-CH-243		M367											
108	1"-CH-800		M367											
109	3"-CH-402	X												
110	4"-CH-200	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 5

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 15 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION												
111	3"-CH-19	X												
112	3/4"-CH-218	X												
113	4"-CH-402	X												
114	3"-CH-212	X												
115	3"-CH-214	X												
116	3/4"-CH-213	X												
117	1"-CH-220	X												
118	3/4"-CH-922	X												
119	3/4"-CH-220	X												
120	4"-CH-200	X												
121	4"-CH-207	X												
122	3/4"-CH-242	X												
123	1"-CH-801	X												
124	4"-CH-205	X												
125	4"-CH-206	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 6

LOCATION: WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. ILR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3
SH 16 OF 33

SOURCES

TARGETS

L-3	LINES	NO INTERACTION												
126	3"-CH-19	X												
127	3/4"-CH-216	X												
128	3/4"-CH-923	X												
129	1"-CH-218	X												
130	3/4"-CH-218	X												
131	3"-CH-402	X												
132	4"-CH-200	X												
133	2"-CH-208	X												
134	3/4"-CH-241	X												
135	1"-CH-802	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 7

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

L-3

SH 17 OF 33

SOURCES

TARGETS	LINES	NO INTERACTION	2"-DRAIN LINE											
			1											
L-3														
136	2"-CH-251	X												
137	2"-CH-228	X												
138	2"-CH-232	X												
139	2"-CH-227	X												
140	2"-CH-225		M364											
141	2"-CH-222	X												
142	2"-CH-221		M364											
143	2"-CH-224	X												
144	3/4"-CH-233	X												
145	2"-CH-229	X												
146	2"-CH-224		M364											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3

SH 18 OF 33

SOURCES

TARGETS

L-3	LINES	NO INTERACTION
147	3"-CH-120	X

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 9

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 19 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 LIGHT FIX.	2 3/4"-450										
148	4"-CH-402		M362	M362										
149	2"-CH-402		M362	M362										
150	3/8"-CH-857	X												
151	3/4"-CH-551		M362	M362										
152	3/8"-CH-856	X												
153	3/4"-CH-553		M362	M362										
154	4"-CH-41		M362	M362										
155	2"-CH-41		M362	M362										
156	4"-CH-478		M363											
157	3/4"-CH-858	X												
158	3/4"-CH-114		M363											
159	3"-CH-17		M363											
160	4"-CH-17		M363											
161	3"-CH-120	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

L-3

SH 20 OF 33

SOURCES

TARGETS

L-3 LINES		NO INTERACTION
162	3"-CH-120	X
163	2"-CH-316	X

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 6A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 21 OF 33
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	LINES	NO INTERACTION
L-3		
164	4"-CH-478	X

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 23A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 22 OF 33
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

	LINES	NO INTERACTION
L-3		
165	4"-CH-478	X

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 24A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DRILR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003

L-3

SH 23 OF 33

SOURCES

TARGETS	LINES	NO INTERACTION	1 LIGHT FIX.											
L-3														
166	4"-CH-298		M361											
167	3/4"-CH-517		M361											
168	3"-CH-478		M361											
169	4"-CH-478		M361											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3
SH 24 OF 33

SOURCES

TARGETS

L-3	LINES	NO INTERACTION												
170	3"-CH-99	X												
171	3/4"-CH-244	X												
172	3/4"-CH-847	X												
173	4"-CH-298	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 26A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3
SH 25 OF 33

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 2"-CITY WATER	2 8"-DRAIN HEADER	3 10"-DRAIN HEADER	4 2"-SPACE HEATER LINES (AMT-2)	5 ½"-CONDUIT	6 SPACE HEATER	7 LIGHT FIX.					
174	3"-CH-19	X												
175	4"-CH-402	X												
176	4"-CH-298	X												
177	2"-CH-202		M348		M348	M348	M348	M348	M349					
178	2"-CH-253		M349		M349				M349					
179	3/4"-CH-871		M348		M348	M348	M348	M348						
180	2"-CH-430		M349		M349				M349					
181	1"-CH-202		M348		M348	M348	M348	M348	M349					
182	1"-CH-204		M348		M348	M348	M348	M348	M349					
183	3/4"-CH-873		M348		M348	M348	M348	M348						
184	3/8"-CH-873		M348		M348	M348	M348	M348						
185	1"-CH-254		M349		M349				M349					
186	2"-CH-204		M348	M347	M348	M348	M348	M348						
187	2"-CH-284		M348	M347	M348	M348	M348	M348	M349					
188	2"-CH-228		M347	M347	M347	M347		M348						
189	2"-CH-227		M347	M347	M347	M347		M348						

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

L-3

SH 26 OF 33

SOURCES

TARGETS

	LINES L-3	NO INTERACTION	1 2"-CITY WATER	2 10"-DRAIN HEADER	3 2"-SPACE HEATER LINES (AMT-2)	4 ½"-CONDUIT	5 SPACE HEATER	6 LIGHT FIXTURE	7 1"-AUX-STEAM	8 2"-560	9 LIGHT FIXTURE	10 3/4"-414	11 1"-PRIMARY WATER	12 3/4"-729
190	2"-CH-208		M348	M348	M348	M348	M348		M350	M350	M350	M350	M350	M350
191	3/4"-CH-870		M348	M348	M348	M348	M348							
192	2"-CH-393		M349	M349				M349						
193	3"-CH-237	X												
194	2"-CH-594													
195	1"-CH-235	X												
196	1"-CH-236	X												
197	2"-CH-230	X												
198	3/4"-CH-231	X												
199	2"-CH-225		M427											
200	3/4"-CH-226		M427											
201	3/8"-CH-871		M348	M348	M348	M348	M348							
202	3/8"-CH-870		M348	M348	M348	M348	M348							

INCHES 0 1 2 CM. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYS

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003
DIV. MECH DR. ILR DATE CH. SCALE NONE APPROVED T P RUGGIERO		SH 27A OF 33

SOURCES

TARGETS

LINES		NO INTERACTION	13 ½"-CONDUIT	14 LIGHT FIXTURE	15 1"-STATION AIR HEADER								
L-3													
194	2"-CH-594		M346	M346									
199	2"-CH-225				M427								
200	3/4"-CH-226				M427								

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYS

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	SH 27B OF 33

SOURCES

TARGETS	LINES	NO INTERACTION	1 LIGHT FIX	2 LIGHT FIX										
L-3														
203	3"-CH-99		M358	M359										
204	3/4"-CH-244		M358											
205	3"-CH-299		M358											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 28A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

L-3

SH 28 OF 33

SOURCES

L-3	LINES	NO INTERACTION	1 LIGHT FIX	2 2"-119	3 2"-592	4 1"-104								
206	2"-CH-27		M355	M355										
207	2"-CH-250		M355											
208	1"-CH-115		M354											
209	4"-CH-298	X												
210	3"-CH-120			M355		M355								
211	2"-CH-755		M355 M354											
212	4"-CH-200		M354		M355									
213	3"-CH-99													
214	3"-CH-169		M355											

TARGETS

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION: EL 73'-0

WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003

L-3

S.H 29 OF 33

SOURCES

L-3	LINES	NO INTERACTION	1 2"-119	2 2"-592	3 2"-479	4 LIGHT FIX.								
215	2"-CH-27		M356			M357								
216	3"-CH-99					M357								
217	3"-CH-120		M356			M357								
218	3/4"-CH-295	X												
219	2"-CH-170					M357								
220	2"-CH-3000	X												
221	2"-CH-250					M357								
222	3/4"-CH-448					M357								
223	3/4"-CH-436					M357								
224	3/8"-CH-436					M357								
225	1"-CH-115					M357								
226	1"-CH-162					M357								
227	2"-CH-755					M357								
228	4"-CH-200		M356	M356	M356	M357								
229	1"-CH-201		M356	M356	M356	M357								
230	3"-CH-169					M357								

TARGETS

INCHES 0 1 2 CM. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: EL 73'0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
L-3

SH 30 OF 33

SOURCES

L-3	LINES	NO INTERACTION	1 Light Fixture	2 Light Fixture										
231	2"-CH-27			M431										
232	2"-CH-99			M431										
233	3"-CH-99													
234	2"-CH-169		M430											
235	3"-CH-169		M430											
236	3/4"-CH-870			M431										
237	3/8"-CH-870													
238	1"-CH-375		M430	M431										
239	3"-CH-120													
240	2"-CH-202													
241	3/4"-CH-872													
242	3/8"-CH-872													
243	3/4"-CH-874													
244	3/8"-CH-874													
245	3/4"-CH-218		M430											
246	2"-CH-170			M431										

TARGETS

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 31 OF 33
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

L-3	LINES	NO INTERACTION	1 2"-CITY WATER	2 3/4"-414	3 2"-119	4 1"-591	5 LIGHT FIX.	6 LIGHT FIX.						
247	2"-CH-27		M351	M351	M351		M352	M353						
248	3/4"-CH-296		M351	M351			M352							
249	2"-CH-99		M351	M351	M351	M351	M352	M353						
250	2"-CH-202	X												
251	3/4"-CH-545		M351	M351			M352	M353						

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

L-3

SH 32 OF 33

SOURCES

TARGETS

LINES		NO INTERACTION
L-3		
252	3"-CH-120	*

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 68 A

LOCATION WITHIN FIRE ZONE:

(* indicates no pictures were taken since it was an inaccessible area).

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 L-3 SH 33 OF 33
DIV. Mech DR. JLR DATE CH. SCALE NONE	APPROVED T. Ruggiero	

SOURCES

	VALVES	NO INTERACTION	1"-WD VENT LINE											
			1											
V-3														
	2"-CH-41													
1	CH-254A (3/4" VENT)		M122											
2	2"-CH-251A	X												
3	2"-CH-251J	X												
	3/4"-CH-486													
4	3/4"-CH-252A		M122											
	3/4"-CH-487													
5	3/4"-CH-253A		M122											
	3"-CH-96													
6	3"-CH-204B	X												
7	3"-CH-210B	X												
8	3"-CH-210D	X												

TARGETS

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT I-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE APPROVED T P RUGGIERO		SH 1 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	1 6"-STANDPIPE#71	2 2"-71	3 1"-WD VENT LINE									
V-3														
	3"-CH-79													
9	3"-CH-LCV-460		M370	M370										
10	3"-CH-LCV-459		M370	M370										
11	3"-CH-342	X												
	2"-CH-17A													
12	2"-CH-261A (AIR OPERT)				M127									
13	CH-242A (3/4" VENT)				M127									
14	CH-259A (3/4" INST)				M127									
15	CH-C-146 (3/4" DRN)	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT I-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 2 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	3/4"-CH-75													
16	3/4"-CH-257A	X												
17	3/4"-CH-256A	X												
18	CH-260A (3/4" INST)	X												
19	CH-255A (3/4" VENT)	X												
20	CH-C-145 (3/4" DRN)	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT I-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 3 OF 59
DIV. MECH DR. ILR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

V-3	VALVES	NO INTERACTION	1 4"-628	2 3/4"-412	3 SPEAKER									
	1"-CH-98													
21	CH-C-204 (3/4" VENT)	X												
22	CH-C-206 (3/4" DRN)	X												
23	1"-CH-215 (AIR OPERT)			M228	M228									
24	CH-214 (3/4" PT INST)	X												
25	1"-CH-FCV-123	X												
26	CH-C-134 (3/4" DRN)	X												
27	EXCESS LETDOWN HT. EXCH. #31		M227	M228	M228									
28	CH-1158A (3/4" VENT)	X												
29	CH-1158B (3/4" DRN)	X												
	2"-CH-42													
30	CH-254B (3/4" VENT)	X												
31	2"-CH-251B	X												
32	2"-CH-251K	X												

TARGETS

INCHES CM.

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

SH 4 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	3/4"-CH-488													
33	3/4"-CH-252B	X												
	3/4"-CH-489													
34	3/4"-CH-253B	X												
	2"-CH-64													
35	2"-CH-212 (FC VALVE)	X												
	3"-CH-80													
36	CH-C112 (3/4" DRN)	X												
37	3"-CH-204A	X												
38	3"-CH-210A	X												
39	3"-CH-210C	X												

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. ILR
DATE CH.
SCALE NONE

APPROVED
T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3
SH 5 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION	1 SPEAKER	2 2"-#72	3 6"-#72	4 2" OIL PIPING	5 1" WDS VENT							
	3"-CH-79													
40	CH-C-111 (3/4" DRN)	X												
41	CH-C-110 (3/4" VENT)	X												
	3"-CH-19													
42	REGENERATIVE HT. EXCH. #31		M226											
	3/4"-CH-76													
43	3/4"-CH-257B			M131	M131		M131							
44	3/4"-CH-256B			M131	M131		M131							
45	CH-260B (3/4" INST)			M131	M131		M131							
46	CH-255B (3/4" VENT)			M131	M131		M131							
47	CH-C-144 (3/4" DRN)					M132								

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL. 46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		SH 6 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	1 2"-#72	2 6"-#72	3 1" WDS VENT	4 3/4"-#381								
V-3														
	2"-CH-17													
48	2"-CH-261B (AIR OPERATED)		M131	M131	M131	M131								
49	CH-259B (3/4" INST)		M131	M131	M131	M131								
50	CH-242B (3/4" VENT)		M131	M131	M131	M131								
51	CH-C-139 (3/4" DRN)	X												
	2"-CH-41													
52	CH-C-122 (3/4" VENT)	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 7 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1											
V-3			2"-34											
	4"-CH-98													
53	CH-C-210 (3/4" VENT)	X												
54	3"-CH-SRV-218	X												
55	1"-CH-FCV-246		M234											
	2"-CH-17C													
56	2"-CH-243D	X												
57	CH-C-128 (3/4" DRN)	X												
	3/4"-CH-17C													
58	3/4"-CH-244D	X												
59	3/4"-CH-245D	X												
60	3/4"-CH-262D	X												
	1"-CH-17C													
61	CH-C-127 (3/4" DRN)	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT-II-EL.-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3
SH 8 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	2"-CH-17B													
62	2"-CH-243C	X												
63	CH-C-120 (3/4" DRN)	X												
	3/4"-CH-17B													
64	3/4"-CH-244C	X												
65	3/4"-CH-245C	X												
66	3/4"-CH-262C	X												
	1"-CH-17B													
67	CH-C-116 (3/4" DRN)	X												
	2"-CH-17A													
68	2"-CH-243A	X												
69	CH-C-138 (3/4" DRN)	X												

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL.-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR
DATE CH.
SCALE NONE

APPROVED
T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3
SH 9 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	3/4"-CH-17A													
70	3/4"-CH-244A	X												
71	3/4"-CH-245A	X												
72	3/4"-CH-262A	X												
	1"-CH-17A													
73	CH-C-137 (3/4" DRN)	X												
	2"-CH-17													
74	2"-CH-243B	X												
75	CH-C-130 (3/4" DRN)	X												
	3/4"-CH-17													
76	3/4"-CH-244B	X												
77	3/4"-CH-245B	X												
78	3/4"-CH-262B	X												

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL.-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR
DATE CH.
SCALE NONE

APPROVED
T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3
SH 10 OF 59

SOURCES

TARGETS													
			1										
V-3	VALVES	NO INTERACTION	3"-38A										
	1"-CH-17												
79	CH-C-129 (3/4" DRN)	X											
	3/4"-CH-76												
80	CH-C-131 (3/4" DRN)	X											
81	3/4"-CH-258B	X											
82	3/4"-CH-C-125	X											
	3/4"-CH-75												
83	CH-C-132 (3/4" DRN)	X											
84	3/4"-CH-258A	X											
	3/4"-CH-78												
85	CH-C-126 (3/4" DRN)		M229										
86	3/4"-CH-258D		M229										

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 11 OF 59
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 3"-38A											
V-3														
	3/4"-CH-77													
87	CH-C-133 (3/4" DRN)		M229											
88	3/4"-CH-258C		M229											
	2"-CH-41													
89	2"-CH-251E	X												
90	CH-C-121 (3/4" VENT)	X												
	2"-CH-42													
91	2"-CH-251F	X												
92	CH-C-119 (3/4" VENT)	X												
	2"-CH-43													
93	2"-CH-251G	X												
94	CH-C-117 (3/4" VENT)	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	SH 12 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	3"-38A											
			1											
V-3														
	2"-CH-44													
95	2"-CH-251H	X												
96	CH-C-115 (3/4" VENT)	X												
	3"-CH-19													
97	CH-C-107 (3/4" VENT)	X												
98	3"-CH-374	X												
	3"-CH-27													
99	CH-C-108 (3/4" VENT)	X												
	2"-CH-27													
100	CH-#31,32,33 (ORIFICES)	X												
101	CH-C-123 (3/4" DRN)	X												
102	2"-CH-FC-200A	X												
103	2"-CH-FC-200B		M230											

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL.46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 13 OF 59
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

	VALVES	NO INTERACTION	1 3"-38A	2 3"-552	3 2"-338									
V-3														
104	2"-CH-FC-200C		M230											
105	CH-C-124 (3/4" DRN)		M230											
106	CH-SRV-203 (2"X3")	X												
	2"-CH-29													
107	2"-CH-HCV-133 (FC VALVE)			M231	M231									

TARGETS

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: QUADRANT II-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 14 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1" WDS VENT	3/4"-#663										
			1	2										
V-3														
	1½"-CH-43													
108	CH-254C (3/4" VENT)			M143										
	3/4"-CH-490													
109	3/4"-CH-252C			M143										
	3/4"-CH-491													
110	3/4"-CH-253C			M143										
	2"-CH-17B													
111	2"-CH-261C (AIR OPERATED)		M141											
112	CH-259C (3/4" INST)		M141											
113	CH-242C (3/4" VENT)		M141											
114	CH-C-140 (3/4" DRN)	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 70A

LOCATION WITHIN FIRE ZONE: QUADRANT III-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		SH 15 OF 59

SOURCES

V-3	VALVES	NO INTERACTION	1" WDS VENT (1)
	3/4"-CH-77		
115	3/4"-CH-257C		M141
116	3/4"-CH-256C		M141
117	CH-260C (3/4" INST)		M141
118	CH-255C (3/4" VENT)	X	
119	CH-C-141 (3/4" DRN)	X	
	2"-CH-43		
120	2"-CH-251L	X	
121	2"-CH-251C	X	

TARGETS

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 70A

LOCATION WITHIN FIRE ZONE: QUADRANT III-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE ____ CH. ____ SCALE NONE	APPROVED T P RUGGIERO	SH 16 OF 59

SOURCES

	VALVES	NO INTERACTION	1 1" WDS VENT	2 1" #383	3 3/4" #664	4 1" #74	5 2" #74							
V-3														
	2"-CH-17C													
122	2"-CH-261D (AIR OPERATED)		M175	M175										
123	CH-259D (3/4" INST)		M175	M175										
124	CH-242D (3/4" VENT)		M175	M175										
125	CH-C-142 (3/4" DRN)				M176	M176								
	3/4"-CH-78													
126	3/4"-CH-257D		M175	M175										
127	3/4"-CH-256D		M175	M175										
128	CH-260D (3/4" INST)		M175	M175										
129	CH-255D (3/4" VENT)		M175	M175										
130	CH-C-143 (3/4" DRN)				M176	M176								
	2"-CH-43													
131	CH-C-118 (3/4" VENT)	X												

TARGETS

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 70A

LOCATION WITHIN FIRE ZONE: QUADRANT IV-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 17 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 3/4" #664	2 2" #74										
V-3														
	2"-CH-44													
132	CH-254D (3/4" VENT)		M182	M182										
133	2"-CH-251D		M182	M182										
134	2"-CH-251M		M182	M182										
135	CH-C-147 (3/4" VENT)	X												
	3/4"-CH-492													
136	3/4"-CH-252D		M182	M182										
	3/4"-CH-493													
137	3/4"-CH-253D		M182	M183										
	2"-CH-64													
138	2"-CH-211	X												

BUILDING: REACTOR CONTAINMENT BUILDING

FIRE ZONE: 70A

LOCATION WITHIN FIRE ZONE: QUADRANT IV-EL-46'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 18 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

V-3	VALVES	NO INTERACTION	1 LIGHT FIX.	2 2" - CONDUIT										
	3"-CH-19													
139	3"-CH-205	X												
140	3"-CH-226	X												
141	3"-CH-HCV-142 (AIR OPERT)	X												
142	3/4"-CH-C-109 (3/4" DRAIN)	X												
143	3"-CH-228	X												
144	3"-CH-227	X												
145	3"-CH-FE-128		M343	M343										
146	3/4"-CH-216 (INST. CONN.)		M343	M343										
147	3/4"-CH-217 (INST. CONN.)		M343	M343										
	4"-CH-17													
148	4"-CH-222	X												

TARGETS

INCHES 0 1 2 3 4 5 6
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION: PIPING PENETRATION WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	SH 19 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	2"-CH-27													
149	2"-CH-201 (AIR OPERT)	X												
150	2"-CH-202 (AIR OPERT)	X												
	2"-CH-41													
151	2"-CH-250A	X												
152	1"-CH-241A	X												
153	2"-CH-FE-144	X												
154	3/4"-CH-240A	X												
155	3/4"-CH-239A	X												
	2"-CH-42													
156	2"-CH-250B	X												
157	1"-CH-241B	X												
158	2"-CH-FE-143	X												
159	3/4"-CH-240B	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION: PIPING PENETRATION WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

SH 20 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION												
V-3														
160	3/4"-CH-239B	X												
	2"-CH-43													
161	2"-CH-250C	X												
162	1"-CH-241C	X												
163	2"-CH-FE-116	X												
164	3/4"-CH-240C	X												
165	3/4"-CH-239C	X												
	2"-CH-44													
166	2"-CH-250D	X												
167	1"-CH-241D	X												
168	2"-CH-FE-115	X												
169	3/4"-CH-240D	X												
170	3/4"-CH-239D	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION: PIPING PENETRATION WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003 V-3

SH 21 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION
V-3		
	3"-CH-19	
171	3/4"-CH-C-114	X

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 61A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 22 OF 59
DIV. Mech DR. JLR DATE CH. SCALE NONE	APPROVED TP Ruggiero	

SOURCES

TARGETS

	VALVES	NO INTERACTION												
V-3														
	4"-CH-402													
172	3/4"-CH-C-106	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 5A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 23 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

V-3	VALVES	NO INTERACTION	1 LIGHT FIX.	2 LIGHT FIX.									
	3"-CH-215												
173	3"-CH-232			M367									
174	3"-CH-8101			M367									
	3"-CH-217												
175	3"-CH-230			M367									
176	3"-CH-8100			M367									
177	3/4"-CH-C-101			M367									
178	CHARGING PUMP #31		M366										
	3/4"-CH-210												
179	SRV-CH-231 (3/4" X 1")			M367									
	3/4"-CH-921												
180	3/4"-CH-8108			M367									

TARGETS

INCHES CH. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 5

LOCATION: WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 24 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.
V-3			
	3/4"-CH-219		
181	3/4"-CH-273		M367
182	3/4"-CH-274		M367
	4"-CH-200		
183	4"-CH-292		M367
184	3/4"-CH-C-211 (3/4" VENT)		M367

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 5

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 25 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.
V-3			
	4"-CH-203		
185	4"-CH-278		M367
	3/4"-CH-243		
186	3/4"-CH-1175B		M367
	1"-CH-800		
187	1"-CH-275		M367

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 5

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

SH 26 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.
V-3			
	4"-CH-402		
188	3/4"-CH-C-100	X	
	3"-CH-212		
189	3"-CH-233	X	
190	3"-CH-8102	X	
	3"-CH-214		
191	3"-CH-235	X	
192	3"-CH-8103	X	
193	3/4"-CH-C-102	X	
194	CHARGING PUMP NO. 32		M365
	3/4"-CH-213		
195	SRV-CH-234 ( )	X	

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 6

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

SH 27 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	3/4"-CH-922													
196	3/4"-CH-8107	X												
	3/4"-CH-220													
197	3/4"-CH-276	X												
198	3/4"-CH-277	X												
	4"-CH-200													
199	4"-CH-289	X												
	4"-CH-207													
200	4"-CH-283	X												
	3/4"-CH-242													
201	3/4"-CH-1175C	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 6

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T. P. RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

SH 28 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION												
V-3														
	1"-CH-801													
202	1"-CH-279	X												
	4"-CH-205													
203	4"-CH-LCV-112B	X												
204	4"-CH-290	X												
	4"-CH-206													
205	4"-CH-288	X												

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 6

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 29 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	3"-CH-19													
206	3/4"-CH-C-113 (3/4" VENT)	X												
207	3"-CH-236	X												
208	3"-CH-8104	X												
209	3/4"-CH-C-103 (3/4" VENT)	X												
210	CHARGING PUMP #33	X												
	3/4"-CH-216													
211	SRV-CH-237 (3/4" X 1")	X												
	3/4"-CH-923													
212	3/4"-CH-8106	X												
	3/4"-CH-218													
213	3/4"-CH-281	X												
214	3/4"-CH-291	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 7

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T. P. RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

SH 30 OF 59

SOURCES

TARGETS

	VALVES	NO INTERACTION												
V-3														
	3"-CH-402													
215	3"-CH-238	X												
216	3"-CH-8105	X												
	4"-CH-200													
217	4"-CH-284	X												
	3/4"-CH-241													
218	3/4"-CH-1175D	X												
	1"-CH-802													
219	1"-CH-280	X												

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 7

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 31 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION	2" - DRAIN LINE
	2"-CH-224	X	
220	2"-CH-365	X	
221	2"-CH-363		M364

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. ILR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

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SOURCES

TARGETS	VALVES	NO INTERACTION	2"-DRAIN LINE											
			1											
V-3														
	2"-CH-221													
222	2"-CH-337	X												
223	2"-CH-367A	X												
224	BORIC ACID TRANSFER PUMP #31		M364											
225	2"-CH-364		M364											
	3/4"-CH-233													
226	3/4"-CH-375	X												
	2"-CH-229													
227	2"-CH-373	X												
228	2"-CH-367B	X												
229	2"-CH-366	X												
230	BORIC ACID TRANSFER PUMP #32	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

SH 33 OF 59

SOURCES

TARGETS

V-3	VALVES	NO INTERACTION												
	BORIC ACID TANK NO. 31													
231	1"-CH-1151A ( )	X												
	BORIC ACID TANK NO. 32													
232	1"-CH-1151B ( )	X												
	2"-CH-230													
233	2"-CH-369	X												
234	2"-CH-362B	X												
235	3/4"-CH-355B	X												
	2"-CH-251													
236	2"-CH-267B	X												
	2"-CH-228													
237	2"-CH-267A	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	SH 34 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	2"-DRAIN LINE (1)											
V-3														
	2"-CH-232													
238	2"-CH-370	X												
	2"-CH-227													
239	2"-CH-360	X												
	2"-CH-225													
240	2"-CH-361	X												
241	2"-CH-362A	X												
242	3/4"-CH-355A (INST CONN)		M364											
	2"-CH-222													
243	3/4"-CH-338	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. ILR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

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SOURCES

TARGETS V-3	VALVES	NO INTERACTION	1 LIGHT FIX	2 3/4"-450										
	4"-CH-402													
244	4"-CH-248		M362	M362										
245	3/4"-CH-239J ( )		M362	M362										
	2"-CH-402													
246	2"-CH-249B		M362	M362										
247	2"-CH-249D		M362	M362										
248	SEAL INJECTION FILTER #31													
249	SEAL INJECTION FILTER #32													
	3/8"-CH-857													
250	3/8"-CH-1199C	X												
251	3/8"-CH-1199D	X												
	3/4"-CH-551													
252	3/4"-CH-239G		M362	M362										

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

SOURCES

V-3	VALVES	NO INTERACTION	1 LIGHT FIX.	2 3/4" - 450										
	3/8"-CH-856													
253	3/8"-CH-1199A	X												
254	3/8"-CH-1199B	X												
	3/4"-CH-553													
255	3/4"-CH-239H		M362	M362										
	4"-CH-41													
256	3/4"-CH-239K		M362	M362										
	2"-CH-41													
257	2"-CH-249A		M362	M362										
258	2"-CH-249C		M362	M362										

TARGETS

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR
DATE CH.
SCALE NONE

APPROVED
T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

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SOURCES

TARGETS

V-3	VALVES	NO INTERACTION	1 LIGHT FIX.											
	4"-CH-478													
259	4"-CH-225		M363											
260	3/4"-CH-396 (INST CONN)		M363											
	3/4"-CH-858													
261	3/4"-CH-224A		M363											
	3/4"-CH-114													
262	3/4"-CH-224B		M363											
	3"-CH-17													
263	3"-CH-221A		M363											
	4"-CH-17													
264	4"-CH-223		M363											
265	3/4"-CH-395 (INST CONN)		M363											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

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SOURCES

TARGETS	VALVES	NO INTERACTION												
V-3														
	3"-CH-120													
266	3"-CH-310	X												
	2"-CH-316													
267	2"-CH-313	X												

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 6A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 39 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.											
V-3														
	4"-CH-298													
268	3/4"-CH-C-213 (3/4" VENT)		M361											
269	4"-CH-272B		M361											
	3/4"-CH-517													
270	3/4"-CH-1175A	X												
271	SEAL WATER HEAT EXCHANGER #31		M360											
272	3/4"-CH-1157C (3/4" VENT)		M360											
273	3/4"-CH-224C ( )													
274	3/4"-CH-1157D (3/4" DRAIN)	X												
	3"-CH-478													
275	3"-CH-221B		M361											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

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SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.											
V-3														
	4"-CH-478													
276	4"-CH-272A		M361											
277	3/4"-CH-C-215 (3/4" VENT)	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		SH 41 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION												
V-3														
	3"-CH-99													
278	REACTOR COOLANT FILTER #31	X												
	3/4"-CH-847													
279	3/4"-CH-304A	X												
	4"-CH-298													
280	3/4"-CH-C-216	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 26A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

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SOURCES

TARGETS	VALVES	NO INTERACTION	1 ½"-CONDUIT	2 LIGHT FIX.									
V-3													
	2"-CH-594												
281	2"-CH-1198A	X											
	1"-CH-235												
282	1"-CH-358	X											
	1"-CH-236												
283	1"-CH-372	X											
284	BORIC ACID TANK #32		M346	M346									
285	BORIC ACID TANK HEATERS	X											
	2"-CH-230												
286	2"-CH-HCV-104 (AIR OPERT)	X											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3
SH 43 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	1 2"-CITY WATER	2 10"-DRAIN HEADER	3 2"-SPACE HEATER LINES (AMT-2)	4 ½"-CONDUIT	5 SPACE HEATER	6 LIGHT FIX.	7 1"-Station Air Header					
V-3														
	2"-CH-208													
287	3/4"-CH-C-202 (3/4" DRN)		M348	M348	M348	M348	M348							
288	2"-CH-333 (MOV)		M348	M348	M348	M348	M348							
289	2"-CH-332		M348	M348	M348	M348	M348							
	3/4"-CH-870													
290	3/4"-CH-1298D		M348	M348	M348	M348	M348							
	2"-CH-393													
291	2"-CH-330		M349	M349				M349						
292	2"-CH-331		M349	M349				M349						
293	BORIC ACID TANK #31		M427						M427					
294	BORIC ACID TANK HEATERS	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

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SOURCES

TARGETS

V-3	VALVES	NO INTERACTION	1 2"-CITY WATER	2 10"-DRAIN HEADER	3 2"-SPACE HEATER LINES (AMT-2)	4 ½"-CONDUIT	5 SPACE HEATER	6 1"-Station Air Header						
	3/4"-CH-231													
295	3/4"-CH-371	X												
296	3/4"-CH-ORIFICE (CSORBA-2)	X												
	2"-CH-225													
297	2"-CH-HCV-105 (AIR OPERT)	X												
	3/4"-CH-226													
298	3/4"-CH-359		M427					M427						
299	3/4"-CH-ORIFICE (CSORBA-1)		M427					M427						
	3/8"-CH-871													
300	3/8"-CH-1299F		M348	M348	M348	M348	M348							
	3/8"-CH-870													
301	3/8"-CH-1299D		M348	M348	M348	M348	M348							

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

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SOURCES

V-3	VALVES	NO INTERACTION	1 2"-CITY WATER	2 8"-DRAIN HEADER	3 10"-DRAIN HEADER	4 2"-SPACE HEATER LINES (AMT-2)	5 ½"-CONDUIT	6 SPACE HEATER	7 LIGHT FIX.					
	2"-CH-202													
302	BORIC ACID BLENDER		M348		M348	M348	M348	M348	M349					
	2"-CH-253													
303	2"-CH-294		M349		M349				M349					
304	2"-CH-295		M349		M349				M349					
305	2"-CH-350		M349		M349				M349					
	3/4"-CH-871													
306	3/4"-CH-296		M348	M347	M348	M348								
	2"-CH-430													
307	2"-CH-327		M349		M349			M348						
308	2"-FCV-111A (AIR OPERT)		M349		M349									

TARGETS

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		SH 46 OF 59

SOURCES

	VALVES	NO INTERACTION	1 2"-CITY WATER	2 8"-DRAIN HEADER	3 10"-DRAIN HEADER	4 2"-SPACE HEATER LINES (AMT-2)	5 ½"-CONDUIT	6 SPACE HEATER						
V-3														
	1"-CH-204													
309	1"-CH-293		M348		M348	M348	M348	M348						
310	1"-CH-328		M348		M348	M348	M348	M348						
311	1"-FCV-110A (AIR OPERT)		M348		M348	M348	M348	M348						
312	3/4"-CH-C-203 (3/4" VENT)		M348		M348	M348	M348	M348						
313	1"-CH-329		M348		M348	M348	M348	M348						
314	1"-CH-FT-110		M348		M348	M348	M348	M348						
	3/4"-CH-873													
315	3/4"-CH-1298C		M348		M348	M348	M348	M348						
	3/8"-CH-873													
316	3/8"-CH-1299C		M348		M348	M348	M348	M348						
	2"-CH-284													
317	2"-CH-1197		M348	M347	M348	M348	M348	M348						

TARGETS

INCHES 0 1 2 3 4 5
CM. 0 1 2

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

SH 47 OF 59

SOURCES

V-3	VALVES	NO INTERACTION	1 2"-CITY WATER	2 8"-DRAIN HEADER	3 10"-DRAIN HEADER	4 2"-SPACE HEATER LINES (AMT-2)	5 ½"-CONDUIT	6 SPACE HEATER	7 LIGHT FIX.					
	1"-CH-254													
318	1"-CH-247		M349		M349				M349					
319	1"-CH-282		M349		M349				M349					
	2"-CH-204													
320	2"-CH-334		M348	M347	M348	M348	M348	M348						
321	3/4"-CH-399B (INST CONN)		M348	M347	M348	M348	M348	M348						
322	BORIC ACID FILTER #31		M347	M347	M347	M347		M348						
323	3/4"-CH-399A (3/4" VENT)		M347	M347	M347	M347		M348						
324	3/4"-CH-335 (3/4" DRAIN)	X												
	2"-CH-227													
325	2"-CH-336		M347	M347	M347	M347		M348						
326	3/4"-CH-399C (INST CONN)		M347	M347	M347	M347		M348						

TARGETS

INCHES 0 1 2
CM. 0 1 2 3 4 5

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 48 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX											
V-3														
	3"-CH-99													
327	3/4"-CH-307 (INST CONN)		M358											
328	3"-CH-305		M358											
329	3/4"-CH-303 (INST CONN)		M358											
330	3"-CH-302		M358											
	3"-CH-299													
331	3"-CH-306		M358											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 28A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

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SOURCES

TARGETS														
			1	2										
	VALVES	NO INTERACTION	LIGHT FIX.	LIGHT FIX.										
V-3														
332	VOLUME CONTROL TANK #31		M354	M355										

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: EL - 73'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 50 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.											
V-3														
	3"-CH-99													
333	3"-CH-TCV-149 (AIR OPERT)	X												
334	3"-CH-LCV-112A (AIR OPERT)	X												
335	3/4"-CH-C-212 (3/4" VENT)	X												
336	3"-CH-357		M357											
	3/4"-CH-295													
337	3/4"-CH-974A	X												
	2"-CH-3000													
338	2"-CH-8110	X												
	2"-CH-250													
339	3/4"-CH-266A (INST CONN)		M357											
340	SRV-CH-264 (2"X3")		M357											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION: EL 73'-0

WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3
DIV. MECH DR. JLR DATE CH. SCALE NONE APPROVED T P RUGGIERO		SH 51 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.
V-3			
	3/4"-CH-448		
341	3/4"-CH-975		M357
342	3/4"-CH-266B		M357
343	3/4"-CH-268 (SOLENOID OPERT)		M357
344	3/4"-CH-PCV-113B (AIR OPERT)		M357
345	3/4"-CH-266C		M357
	3/4"-CH-436		
346	3/4"-CH-266D		M357
	3/8"-CH-436		
347	3/8"-CH-265 (SOLENOID OPERT)		M357
348	3/8"-CH-PCV-193A (AIR OPERT)		M357

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: EL-73'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE ____ CH. ____

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK
INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003
V-3

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SOURCES

TARGETS			1											
	VALVES	NO INTERACTION	LIGHT FIX.											
V-3														
	1"-CH-115													
349	1"-CH-270		M357											
350	1"-CH-271		M357											
	1"-CH-162													
351	1"-CH-269		M357											
352	1"-CH-PCV-113A (AIR OPERT)		M357											
	2"-CH-755													
353	2"-CH-299A		M357											
354	2"-CH-299B		M357											
355	2"-CH-300A		M357											
356	2"-CH-300B		M357											
357	3/4"-CH-1295A (3/4" DRAIN)		M357											
358	3/4"-CH-1295B (3/4"-DRAIN)		M357											

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION: EL-73'-0

WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

SH 53 OF 59

SOURCES

	VALVES	NO INTERACTION	1 2"-119	2 2"-592	3 2"-479	4 LIGHT FIX.								
V-3														
	4"-CH-200													
359	4"-CH-LCV-112C (MOV)		M356	M356	M356	M357								
	1"-CH-201													
360	1"-CH-298		M356	M356	M356	M357								

TARGETS

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: EL-73'-0

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 54 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES		1	2										
V-3		NO INTERACTION	Light Fixture	Light Fixture										
	2"-CH-169													
361	SRV-CH-263 (2" x 3")		M430											
	2"-CH-170													
362	2"-CH-FCV-111B			M431										
	3/4"-CH-870													
363	3/4"-CH-1298A			M431										
	3/8"-CH-870													
364	3/8"-CH-1299A	X												
	2"-CH-202													
365	2"-CH-297	X												
366	2"-CH-FCV-110B ( )	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

SH 55 OF 59

SOURCES

TARGETS	VALVES	NO INTERACTION												
V-3														
	3/4"-CH-872													
367	3/4"-CH-1298B	X												
	3/8"-CH-872													
368	3/8"-CH-1299B	X												
	3/4"-CH-874													
369	3/4"-CH-1298E	X												
	3/8"-CH-874													
370	3/8"-CH-1299E	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION : WITHIN FIRE ZONE

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003 V-3 SH 56 OF 59
DIV. MECH DR. JLR DATE CH. SCALE NONE	APPROVED T P RUGGIERO	

SOURCES

TARGETS	VALVES	NO INTERACTION	1 LIGHT FIX.	2 LIGHT FIX.										
V-3														
	2"-CH-27													
371	3/4"-CH-C-135 (3/4" VENT)			M353										
372	NON-REGENERATIVE HEAT EXCHANGER#31		M352	M353										
373	3/4"-CH- 1158C (3/4" VENT)			M353										
374	3/4"-CH-1157A (3/4" VENT)		M352											
375	3/4"-CH-1157B (3/4" DRAIN)	X												
	3/4"-CH-545													
376	3/4"-CH-1158D	X												
	3/4"-CH-296													
377	3/4"-CH-974B	X												

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003

V-3

SH 57 OF 59

SOURCES

TARGETS		NO INTERACTION	1 LIGHT FIX.
VALVES V-3			
	2"-CH-99		
378	3/4"-CH-C-136 (3/4"-DRAIN)		M353
379	2"-CH-206		M353
380	3/4"-CH-207 (INST CONN)		M353
381	2"-CH-FE-134		M353
382	3/4"-CH-208 (INST CONN)		M353
383	3/4"-CH-209 (INST CONN)		M353
384	2"-CH-PCV-135	X	

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

CHEMICAL & VOLUME CONTROL SYSTEM

EBASCO SERVICES INCORPORATED

DIV. MECH DR. JLR

DATE CH.

SCALE NONE

APPROVED

T P RUGGIERO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

5209.003 V-3

SH 58 OF 59

SOURCES

TARGETS			1											
	VALVES	NO INTERACTION	8"-Drainline											
V-3														
385	2"-CH-250A		M429											
386	2"-CH-250B		M429											
387	2"-CH-250C		M429											
388	2"-CH-250D		M429											
389	1"-CH-241A		M429											
390	1"-CH-241B		M429											
391	1"-CH-241C		M429											
392	1"-CH-241D		M429											

INCHES 0 1 2 3 4 5
CM. 0 1

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION : WITHIN FIRE ZONE

Chemical & Volume Control System

EBASCO SERVICES INCORPORATED	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX	5209.003
DIV. Mech DR. JLR DATE CH. SCALE NONE APPROVED TP Ruggiero		V-3 SH 59 OF 59

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

NON-CONNECTED INTERACTIONS EVALUATION

1.	No Interaction	-	Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
2.	Acceptable	-	Source pipe/conduit is equal size or smaller in diameter and/or the same thickness or thinner wall than the target pipe/conduit/tubing. Paragraph 6.2.2.1a Volume I.
3.	Acceptable	-	Source has insufficient mass to damage the target component.
4.	Acceptable	-	Basis is engineering judgement. Specific justification is on the evaluation form.
5.	Potentially Unacceptable	-	Discussion of specific is on the evaluation form.
6.	Potentially Unacceptable	-	Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
7.	Potentially Unacceptable	-	Source will fall a sufficient distance, or has adequate mass such that damage to target conduit/box/instrument/tubing/panel may be possible.
8.	No Interaction	-	Upon further investigation of the source, this portion of its system is designated Seismic I.

R2 7/22/82
R1 6/30/82
R0 6/26/82

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
SYSTEMS INTERACTION EVALUATION

SYSTEM NO. 3

SYSTEM NAME CHEMICAL & VOLUME CONTROL SYSTEM

EVALUATION CATEGORY

NON-CONNECTED X

INTERCONNECTED

8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9-29-82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-1-1

PHOTOGRAPH NO.: M-122

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (Black arrow on the center)

SOURCE: 1"-WD-Vent Line (White arrow on the left center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-1-4

PHOTOGRAPH NO.: M-123

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (Black arrow on the top left)

SOURCE: 3/4" -381 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source hits target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-5-2

PHOTOGRAPH NO.: M-370

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-79 (Black arrow on the bottom right)

SOURCE: 6"-Standpipe (not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-5-3

PHOTOGRAPH NO.: M-370

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-79 (Black arrow on the bottom right)

SOURCE: 2"-71 (not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-6-4

PHOTOGRAPH NO.: M-123

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-75 (Black arrow on the top center)

SOURCE: 3/4"-381 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-6-5

PHOTOGRAPH NO.: M-125

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-75 (Black arrow on the bottom right)

SOURCE: 3/4"-661 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-6-6

PHOTOGRAPH NO.: M-125

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-75 (Black arrow on the bottom right)

SOURCE: 1"-71 (White arrow on the bottom left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

G A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-6-8

PHOTOGRAPH NO.: M-129

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-75 (White arrow on the center)

SOURCE: 2"-Oil pipe (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J.L. Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-7-1

PHOTOGRAPH NO.: M-127

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the bottom center)

SOURCE: 1" WD-Vent Line (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-7-4

PHOTOGRAPH NO.: M-123

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow 2nd from the top left)

SOURCE: 3/4"-381 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-7-5

PHOTOGRAPH NO.: M-125

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the bottom center)

SOURCE: 3/4"-661 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-7-6

PHOTOGRAPH NO.: M-125

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the bottom center)

SOURCE: 1"-71 (White arrow on the bottom left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant I-El-46'-0

POTENTIAL INTERACTION NO.: L-3-7-7

PHOTOGRAPH NO.: M-126

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the top center)

- SOURCE: 1"-377 (White arrow on center right off picture)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-10-2

PHOTOGRAPH NO.: M-227

BACKGROUND NO.: 3-510

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-97 (Black arrow on the center left)

SOURCE: 4"-628 (White arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-10-3

PHOTOGRAPH NO.: M-235

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-97 (Black arrow on the center)

SOURCE: 3/4"-412 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-5

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17 (Black arrow on the bottom center)

SOURCE: 3/4"-381 (White arrow on the Top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-6

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17, (Black arrow on the bottom center)

SOURCE: 1"-WD-Vent (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-7

PHOTOGRAPH NO.: M-138

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17 (Not shown)

SOURCE: 2"-Oil Pipe (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-8

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17 (Black arrow on the bottom center)

SOURCE: 2"-#72 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-9

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17 (Black arrow on the bottom center)

SOURCE: 6"-#72 (White arrow on the left 2nd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-10

PHOTOGRAPH NO.: M-133

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17 (Black arrow on the center)

SOURCE: 1"-#72 (White arrow top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-11-11

PHOTOGRAPH NO.: M-133

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17 (Black arrow on the center)

SOURCE: 3/4" - 662 (White arrow 2nd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-12-5

PHOTOGRAPH NO.: M-134, M-123, M-139

BACKGROUND NO.: 3-6, 3-5, 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the center left) (M-134)

SOURCE: 3/4"-381 (White arrow on the center left) (M-134)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-12-6

PHOTOGRAPH NO.: M-128, M-126

BACKGROUND NO.: 3-5

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the bottom center) (M-128)

SOURCE: 1"-WD-Vent (White arrow on the top center) (M-128)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-12-7

PHOTOGRAPH NO.: M-138

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17A (Black arrow on the center)

SOURCE: 2" - Oil Pipe (White arrow on the left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-13-5

PHOTOGRAPH NO.: M-134, M-123, M-139

BACKGROUND NO.: 3-6, 3-5, 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-75 (Black arrow 2nd from the Top left) (M-134)

SOURCE: 3/4"-381 (White arrow on the left) (M-134)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-E-46'-0

POTENTIAL INTERACTION NO.: L-3-14-5

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom left)

SOURCE: 3/4"-381 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-E1-46'-0

POTENTIAL INTERACTION NO.: L-3-14-6

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom left)

SOURCE: 1"-WD Vent (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-14-7

PHOTOGRAPH NO.: M-132, M-138

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom center)

SOURCE: 2"-Oil Pipe (White arrows on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-14-8

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom left)

SOURCE: 2"-#72 (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Biilding

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant El-46'-0

POTENTIAL INTERACTION NO.: L-3-14- 9

PHOTOGRAPH NO.: M-131

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom left)

SOURCE: 6"-#72 (White arrow on the left 2nd from the Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant/ El-46'-0

POTENTIAL INTERACTION NO.: L-3-14-10

PHOTOGRAPH NO.: M-133

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom center)

SOURCE: 1"-#72 (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-14-11

PHOTOGRAPH NO.: M-133

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-76 (Black arrow on the bottom center)

SOURCE: 3/4"-662 (White arrow on the right, 2nd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-5

PHOTOGRAPH NO.: M-135

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Not Shown)

SOURCE: 3/4"-381 (Lowest arrow on left side)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-7

PHOTOGRAPH NO.: M-138

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Not Shown)

SOURCE: 2"-Oil Pipe (White Arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-8

PHOTOGRAPH NO.: M-140

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Not Shown)

SOURCE: 2"-72 (Below 6" Standpipe)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-9

PHOTOGRAPH NO.: M-140

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Not Shown)

SOURCE: 6"-72 (Top right arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-10

PHOTOGRAPH NO.: M-140

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Not Shown)

SOURCE: 1"-72 (Center white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-12

PHOTOGRAPH NO.: M-135

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Not Shown)

SOURCE: 3/4"-382 (Top left arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-EL-46'-0

POTENTIAL INTERACTION NO.: L-3-15-13

PHOTOGRAPH NO.: M-135

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2" -CH-42 (Not Shown)

SOURCE: 1"-378 (Yellow line)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-20-2

PHOTOGRAPH NO.: M-227

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-80 (Black arrow on the bottom left)

SOURCE: 4"-628 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-20-3

PHOTOGRAPH NO.: M-228

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-80 (Black arrow on the bottom left)

SOURCE: 3/4"-412 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-20-4

PHOTOGRAPH NO.: M-228

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-80 (Black arrow on the bottom left)

SOURCE: Speaker (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-22-1

PHOTOGRAPH NO.: M-226

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-79 (Black arrow on the bottom center)

SOURCE: Speaker - (White arrow on the left center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-22-3

PHOTOGRAPH NO.: M-236

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-79 (Black arrow on the left center)

SOURCE: 3/4"-412 (White arrow on the left center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-24-5

PHOTOGRAPH NO.: M-135

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2"-CH-41 (Dark vertical line with 45° Bend)

SOURCE: 3/4"-381 (Bottom left arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'-0

POTENTIAL INTERACTION NO.: L-3-24- 7

PHOTOGRAPH NO.: M-138

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (1st vertical line from left)

SOURCE: 2"- Oil Pipe (white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswald 9 /27/82
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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-24-12

PHOTOGRAPH NO.: M-135

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (At center, vertical dark line w/45° Bend)

SOURCE: 3/4"-382 (Top left arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 71A

LOCATION WITHIN FIRE ZONE: Quadrant II-El-46'0

POTENTIAL INTERACTION NO.: L-3-24-13

PHOTOGRAPH NO.: M-135

BACKGROUND NO.: 3-6

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (At center, vertical dark line w/45° Bend)

SOURCE: 1"-#378 (Right White Arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-25-3

PHOTOGRAPH NO.: M-234

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-17 (Black arrow on the top right)

SOURCE: 2"-34 (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-26-1

PHOTOGRAPH NO.: M-231

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-98 (Not Shown)

SOURCE: 3"-552 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-26-2

PHOTOGRAPH NO.: M-231

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-98 (Not Shown)

SOURCE: 2"-338 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J. L. Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-27-3

PHOTOGRAPH NO.: M-234

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-17 (Black arrow on the bottom left)

SOURCE: 2"-34 (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE _____ X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-28-3

PHOTOGRAPH NO.: M-234

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-17 (Black arrow on the top right)

SOURCE: 2"-34 (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-41-1

PHOTOGRAPH NO.: M-229

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-78 (Not Shown)

SOURCE: 3"-38A (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J. L. Rodriguez 5/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-42-1

PHOTOGRAPH NO.: M-229

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-77 (Not Shown)

SOURCE: 3"-38A (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 9/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-43-5

PHOTOGRAPH NO.: M-233 M-234

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (Black arrow on the center left) (M233)

SOURCE: 2"-34 (White arrow on the top center) (M233)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-44-5

PHOTOGRAPH NO.: M-233 M-234

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-42 (Black arrow on the center right)

SOURCE: 2"-34 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-47-4

PHOTOGRAPH NO.: M-232

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-19 (Not Shown)

SOURCE: 1"-507 (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-49-1

PHOTOGRAPH NO.: M-230

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Not Shown)

SOURCE: 3"-38A (White arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-49-2

PHOTOGRAPH NO.: M-231

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Not Shown)

SOURCE: 3"-552 (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-49-3

PHOTOGRAPH NO.: M-231

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Not Shown)

SOURCE: 2"-338 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-50-2

PHOTOGRAPH NO.: M-231

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-29 (Not Shown)

SOURCE: 3"-552 (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 72A

LOCATION WITHIN FIRE ZONE: Quadrant II - El-46'-0

POTENTIAL INTERACTION NO.: L-3-50-3

PHOTOGRAPH NO.: M-231

BACKGROUND NO.: 3-10

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-29 (Not Shown)

SOURCE: 2"-338 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-54-1

PHOTOGRAPH NO.: M-173, M-141

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17B (M-173: Not Shown) (M-141: Lowest horizontal line)

SOURCE: 1" WDS Vent (M-173: Center white arrow) (M-141: Left white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-54-2

PHOTOGRAPH NO.: M-173, M-142

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17B (M-142: Insulated pipe, lower right corner)

SOURCE: 3/4"-#383 (M-142: white arrow at center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswald 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-54-3

PHOTOGRAPH NO.: M-142

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17B (lower right pipe)

SOURCE: VLV # 553C (left arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-54-4

PHOTOGRAPH NO.: M-169

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17B (At center, dark vertical insul. pipe)

SOURCE: 3/4"-#663 (Upper white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-54-5

PHOTOGRAPH NO.: M-169

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17B (At center, dark insulated vertical pipe)

SOURCE: 1"-#73 (Lower white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-55-1

PHOTOGRAPH NO.: M-141

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-77 (Lower left corner, pipe w/90° Bend)

SOURCE: 1"-WDS Vent (white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-56-1

PHOTOGRAPH NO.: M-173

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-43 (lowest of 3 white pipes on right)

SOURCE: 1"-WDS Vent (Center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-56-2

PHOTOGRAPH NO.: M-173

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-43 (lowest of 3 white pipes on right side)

SOURCE: 3/4"-#383 (Not shown, pointed by top right arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant III-El-46'-0

POTENTIAL INTERACTION NO.: L-3-56-4

PHOTOGRAPH NO.: M-143

BACKGROUND NO.: 3-7

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-43 (Section of vertical pipe on right side)

SOURCE: 3/4"-#663 (White arrow at center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-58-1

PHOTOGRAPH NO.: M-175

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17C (White insul. line at lower left side)

SOURCE: 1" WDS Vent (Not Shown Above)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-E1-46'-0

POTENTIAL INTERACTION NO.: L-3-58-2

PHOTOGRAPH NO.: M-175

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17C (White insul. line at the Bottom)

SOURCE: 1"-#383 (White arrow)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-58-3

PHOTOGRAPH NO.: M-176

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17C (Insul. dark line at center)

SOURCE: 3/4"-#664 (Upper white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswald 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: I-3-58-4

PHOTOGRAPH NO.: M-176

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-17C (Insul. dark line at center)

SOURCE: 1"-#74 (Lower white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE	POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: N-3-60-1

PHOTOGRAPH NO.: M-175

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-78 (Line w/valve in the lower far left)

SOURCE: 1"WDS Vent (Not Shown Above)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____I____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-60-2

PHOTOGRAPH NO.: M-175

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-78 (line in manual valve, far left)

SOURCE: 1"-#383 (white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-60-3

PHOTOGRAPH NO.: M-176

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-78 (Dark vertical Insul. line at center)

SOURCE: 3/4"-#664 (Upper white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-60-4

PHOTOGRAPH NO.: M-176

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-78 (Dark, vertical, insul. line at center)

SOURCE: 1"-#74 (lower white arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-60-5

PHOTOGRAPH NO.: M-177

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-78 (Not shown)

SOURCE: 1½" Oil Piping (White arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-61-3

PHOTOGRAPH NO.: M-182

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-44 (Center dark vertical line)

SOURCE: 3/4"-664 (2nd arrow from left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE	POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-61-6

PHOTOGRAPH NO.: M-182

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-44 (Center dark vertical line)

SOURCE: 2"-#74 (Not shown, pointed by white arrow at right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-62-3

PHOTOGRAPH NO.: M-182

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-492 (Valve @ center of three valves)

SOURCE: 3/4"-#664 (2nd arrow from left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-62-6

PHOTOGRAPH NO.: M-182

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-492 (line shown w/valve at center of 3 valves)

SOURCE: 2"-#74 (right arrow pointing)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-63-3

PHOTOGRAPH NO.: M-182

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-493 (not shown)

SOURCE: 3/4"-#664 (2nd left arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-E1-46'-0

POTENTIAL INTERACTION NO.: L-3-63-6

PHOTOGRAPH NO.: M-182

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-493 (Not shown)

SOURCE: 2"-#74 (right arrow off photo)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE _____ POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-64-1

PHOTOGRAPH NO.: M-175

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-43 (Dark horizontal line at center)

SOURCE: 1" WDS Vent (not shown Above)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Reactor Containment Building

FIRE ZONE: 70 A

LOCATION WITHIN FIRE ZONE: Quadrant -IV-El-46'-0

POTENTIAL INTERACTION NO.: L-3-64-2

PHOTOGRAPH NO.: M-175, M-180

BACKGROUND NO.: 3-8

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-43 (M-175: Dark horizontal line)

SOURCE: 1"-#383 (M-175: White arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 1

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-74-3

PHOTOGRAPH NO.: M-343

BACKGROUND NO.: 3-17

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-19 (Black arrow on the bottom center)

SOURCE: 2"-CONDUIT (White arrow on the center 2nd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-74-8

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-19 (Not shown)

SOURCE: 1"-WD-572 (White arrow on the top 3rd from left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-74-9

PHOTOGRAPH NO.: M-337

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-19 (Not Shown)

SOURCE: EMERGENCY LIGHT (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-75-8

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-17 (not shown)

SOURCE: 1"WD-572 (white arrow 3rd from the left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-75-9

PHOTOGRAPH NO.: M-337

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-17 (Not Shown)

SOURCE: EMERGENCY LIGHT (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-76-1

PHOTOGRAPH NO.: M-342

BACKGROUND NO.: 3-17

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow on the bottom left)

SOURCE: LIGHT FIX. (Black arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-76-8

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Not Shown)

SOURCE: 1"-WD-572 (White arrow 3rd from the left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-76-9

PHOTOGRAPH NO.: M-337

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Not Shown)

SOURCE: EMERGENCY LIGHT (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-81-4

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (Not Shown)

SOURCE: 3"-STEAM GEN. BLOWDOWN LIN. (White arrows 1st, 4th, 5th, 6th, from left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswald 9/27/82
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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-81-5

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (Not Shown)

SOURCE: 3/8"-24 (White arrow 2nd from the left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X **ACCEPTABLE** _____ _____ **POTENTIALLY UNACCEPTABLE**

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-81-6

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (Not shown)

SOURCE: 3/8"-30 (White arrow 2nd from the left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X **ACCEPTABLE** | **POTENTIALLY UNACCEPTABLE**

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 59 A

LOCATION WITHIN FIRE ZONE: Piping Penetration

POTENTIAL INTERACTION NO.: L-3-81-7

PHOTOGRAPH NO.: M-336

BACKGROUND NO.: 3-16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (Not shown)

SOURCE: 1"-67 (White arrow 2nd from the left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: Pipe Chase

POTENTIAL INTERACTION NO.: L-3-87-1

PHOTOGRAPH NO.: M-445

BACKGROUND NO.: 3-36

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow on the bottom right)

SOURCE: 18"-389 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodreguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: Pipe Chase

POTENTIAL INTERACTION NO.: L-3-87-2

PHOTOGRAPH NO.: M-445

BACKGROUND NO.: 3-36

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow on the bottom right)

SOURCE: 1"-City Water (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-91-5

PHOTOGRAPH NO.: M-428

BACKGROUND NO.: 3-29

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-19 (Black arrow on the top left)

SOURCE: 3"-40 (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-92-2

PHOTOGRAPH NO.: M-344

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-402 (Black arrow on the top left)

SOURCE: 3/8"-665 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X **ACCEPTABLE** | **POTENTIALLY UNACCEPTABLE**

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-92-4

PHOTOGRAPH NO.: M-345

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-402 (Black arrow on the center left)

SOURCE: 2"-136 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-92-5

PHOTOGRAPH NO.: M-428

BACKGROUND NO.: 3-29

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-402 (Black arrow on the top right)

SOURCE: 3"-40 (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-93-2

PHOTOGRAPH NO.: M-344

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (Black arrow 2nd from the top left)

SOURCE: 3/8"-665 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-93-4

PHOTOGRAPH NO.: M-345

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (Black arrow 3rd from the top left)

SOURCE: 2"-136 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-95-1

PHOTOGRAPH NO.: M-344

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-478 (Black arrow on the bottom center)

SOURCE: 2"-592 (Black arrow bottom left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-95-2

PHOTOGRAPH NO.: M-344

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-478 (Black arrow on the bottom center)

SOURCE: 3/8"-665 (White arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-95-3

PHOTOGRAPH NO.: M-344

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-478 (Black arrow on the bottom center)

SOURCE: 3/4"-450 (Black arrow 3rd from the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-95-4

PHOTOGRAPH NO.: M-345

BACKGROUND NO.: 3-28

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-478 (Not Shown)

SOURCE: 2"-136 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-98-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-218 (Not shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-100-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-203 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-101-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-215 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-102-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-217 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X **ACCEPTABLE** | **POTENTIALLY UNACCEPTABLE**

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-103-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-210 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-104-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-219 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswald 9/27/82
VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-105-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-921 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X **ACCEPTABLE** _____ **POTENTIALLY UNACCEPTABLE**

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-106-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-219 (Not shown)

SOURCE: Light Fix. (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-107-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-243 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: Primary Auxiliary Building

FIRE ZONE: 5

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-108-1

PHOTOGRAPH NO.: M-367

BACKGROUND NO.: 3-37

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-800 (Not Shown)

SOURCE: Light Fix. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-140-1

PHOTOGRAPH NO.: M-364

BACKGROUND NO.: 3-39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-225 (Not Shown)

SOURCE: 2"-Drain Line (Black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-142-1

PHOTOGRAPH NO.: M-364

BACKGROUND NO.: 3-39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-221 (White arrow on the top center)

SOURCE: 2"-Drain Line (Black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 8

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-146-1

PHOTOGRAPH NO.: M-364

BACKGROUND NO.: 3-39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-224 (White arrow on the center right)

SOURCE: 2"-Drain Line (Black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W A Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-148-1

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-402 (Black arrow on the top center)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-148-2

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-402 (Black arrow on the top center)

SOURCE: 3/4"-450 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-149-1

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-402 (Not shown)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-149-2

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-402 (Not shown)

SOURCE: 3/4"-450 (White arrow on the Center Left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-151-1

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-551 (Not shown)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-151-2

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-551 (Not shown)

SOURCE: 3/4"-450 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-153-1

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-553 (Not shown)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-153-2

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-553 (Not shown)

SOURCE: 3/4"-450 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-154-1

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (White arrow on the top right)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-154-2

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-41 (White arrow on the top right)

SOURCE: 3/4"-450 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-155-1

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (Not shown)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-155-2

PHOTOGRAPH NO.: M-362

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-41 (Not shown)

SOURCE: 3/4"-450 (White arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-156-1

PHOTOGRAPH NO.: M-363

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-478 (Black arrow on the top center)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-158-1

PHOTOGRAPH NO.: M-363

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-114 (Not shown)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5
Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required

____	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-159-1

PHOTOGRAPH NO.: M-363

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-17 (Not shown)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 10A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-160-1

PHOTOGRAPH NO.: M-363

BACKGROUND NO.: 3-23

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-17 (White arrow on the top left)

SOURCE: LIGHT FIX. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-166-1

PHOTOGRAPH NO.: M-361

BACKGROUND NO.: 3-4

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-298 (White arrow on the top right)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-167-1

PHOTOGRAPH NO.: M-361

BACKGROUND NO.: 3-49

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-517 (Not shown)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-168-1

PHOTOGRAPH NO.: M-361

BACKGROUND NO.: 3-49

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-478 (Black arrow on the bottom right)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 25A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-169-1

PHOTOGRAPH NO.: M-361

BACKGROUND NO.: 3-49

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-478 (Black arrow on the top right)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-177-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-202 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-177-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-202 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J. L. Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-177-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-202 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-177-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-202 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-177-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-202 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-177-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-202 (Not shown)

SOURCE: LIGHT FIX, (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-178-1

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-253 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-178-3

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-253 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-178-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-253 (Not shown)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-179-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-871 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____!____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-179-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-871 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-179-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-871 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-179-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-871 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-179-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-871 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

! ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-180-1

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-430 (Black arrow on the bottom center)

SOURCE: 2"-CITY WATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-180-3

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-430 (Black arrow on the bottom center)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-180-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-430 (Black arrow on the bottom center)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-181-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-202 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-181-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-202 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-181-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-202 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-181-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-202 (Not shown)

SOURCE: 1"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-181-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-202 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION: 5

EVALUATION NOTE NO:

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required

____!____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-181-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-202 (White arrow on the bottom right)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-182-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-204 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-182-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-204 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-182-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-204 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

/ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W. A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-182-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-204 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-182-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-204 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

_____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W A Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-182-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-204 (Not shown)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-183-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-873 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-183-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-873 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-183-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-873 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-183-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-873 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-183-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-873 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has suffitient Mass such that it may Damage Target.

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-184-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-873 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-184-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-873 (Not shown)

SOURCE: 10" -DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-184-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-873 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___/___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-184-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-873 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-184-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-873 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____/____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-185-1

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-254 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

! ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-185-3

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

- TARGET: 1"-CH-254 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-185-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-254 (Not shown)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-186-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-204 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-186-2

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-204 (Not shown)

SOURCE: 8" - DRAIN HEADER (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-186-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-204 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___I___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-186-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-204 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-186-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-204 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-186-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-204 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____/____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-2

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: 8" -DRAIN HEADER (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-3
M

PHOTOGRAPH NO.: -348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____I____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-187-7

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-284 (Not shown)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-188-1

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-228 (Not shown)

SOURCE: 2"-CITY WATER (Black arrowon the center 2nd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-188-2

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-228 (Not shown)

SOURCE: 8" -DRAIN HEADER (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-188-3

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-228 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow 1st from the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-188-4

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-228 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Black arrows 3rd and 4th from the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-188-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-228

SOURCE: SPACE HEATER

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____!____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-189-1

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-227 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow 2nd from the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-189-2

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-227 (Not shown)

SOURCE: 8" -DRAIN HEADER (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-189-3

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-227 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow 1st from the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

/ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-189-4

PHOTOGRAPH NO.: M-347

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-227 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows 3rd and 4th from the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-189-6

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-227 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-2

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/83
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-7

PHOTOGRAPH NO.: M-350.

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 1"-AUX-STEAM (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-8

PHOTOGRAPH NO.: M-350

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 2"-560 (Black arrow 3rd from the left at top)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-9

PHOTOGRAPH NO.: M-350

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: LIGHT FIX. (Black arrow on top 1st from the left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

K ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-10

PHOTOGRAPH NO.: M-350

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 3/4"-414 (Bottom Right Corner)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-11

PHOTOGRAPH NO.: M-350

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 1"-PRIMARY WATER (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-190-12

PHOTOGRAPH NO.: M-350

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-208 (Not shown)

SOURCE: 3/4"-729 (Black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-191-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-870 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-191-2

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-870 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

I ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-191-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-870 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___/___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-191-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-870 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-191-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-870 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____/____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/17/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-192-1

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-393 (Not shown)

SOURCE: 2"- CITY WATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-192-2

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-393 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

' ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-192-6

PHOTOGRAPH NO.: M-349

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-393 (Not shown)

SOURCE: LIGHT FIX. (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-194-13

PHOTOGRAPH NO.: M-346

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-594 (White arrow on the bottom left)

SOURCE: ½"-CONDUIT (White arrow 1st from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-194-14

PHOTOGRAPH NO.: M-346

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-594 (White arrow on the bottom left)

SOURCE: LIGHT FIX. (White arrow 2nd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-199-1

PHOTOGRAPH NO.: M-427

BACKGROUND NO.: 3:46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-225 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the right 2nd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-199-15

PHOTOGRAPH NO.: M-427

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-225 (Not shown)

SOURCE: 1"-STATION AIR HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-200-1

PHOTOGRAPH NO.: M-427

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-226 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the right 2nd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-200-15

PHOTOGRAPH NO.: M-427

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-226 (Not shown)

SOURCE: 1"-STATION AIR HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-201-1

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-871 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82		W.A. Griswold 9/27/82	
INTERACTION ENGINEER/DATE		VERIFIED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-201-2

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-871 (Not shown)

SOURCE: 10"-DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

/ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-201-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-871 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-201-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-871 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

/	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82		W.A. Griswold 9/27/82	
INTERACTION ENGINEER/DATE		VERIFIED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-201-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-871 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-202-1

PHOTOGRAPH NO.: 3-46 M-348

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-870 (Not shown)

SOURCE: 2"-CITY WATER (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

____ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-202-2

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-870 (Not shown)

SOURCE: 10" -DRAIN HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

! ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-202-3

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-870 (Not shown)

SOURCE: 2"-SPACE HEATER LINES (AMT-2) (Two black arrows on the right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

I ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-202-4

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-870 (Not shown)

SOURCE: ½"-CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

/ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-202-5

PHOTOGRAPH NO.: M-348

BACKGROUND NO.: 3-46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-870 (Not shown)

SOURCE: SPACE HEATER (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

____!____ ACCEPTABLE	____X____ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 28A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-203-1

PHOTOGRAPH NO.: M-358

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-99 (Not shown)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 28A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-203-2

PHOTOGRAPH NO.: M-359

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-99 (Two black arrows on the bottom center)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J -L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 28A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-204-1

PHOTOGRAPH NO.: M-358

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-244 (Not shown)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 28A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-205-1

PHOTOGRAPH NO.: M-358

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-299 (Black arrow on the bottom right)

SOURCE: Light Fix. (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-206-1

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow 3rd from the top left)

SOURCE: Light Fix (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-206-2

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow 3rd from the top left)

SOURCE: 2"-119 (Black arrow 2nd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

✓ ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-207-1

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-250 (Black arrow 1st from the top left)

SOURCE: Light Fix (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

_____ ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-208-1

PHOTOGRAPH NO.: M-354

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-115 (Not shown)

SOURCE: Light Fix (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-210-2

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-120 (Black arrow 4th from the top left)

SOURCE: 2"-119 (Black arrow 2nd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-210-4

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-120 (Black arrow 4th from the top left)

SOURCE: 1"-104 (Black arrow 3rd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-211-1

PHOTOGRAPH NO.: M-354 - M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-755 (Black arrow on the top left) (M-354)
(Black arrow on the top center) (M-355)

SOURCE: Light Fix (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-212-1

PHOTOGRAPH NO.: M-354

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-200 (Not shown)

SOURCE: Light Fix (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-212-3

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-200 (Not shown)

SOURCE: 2"-592 (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 29A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-214-1

PHOTOGRAPH NO.: M-355

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-169 (Black arrow 2nd from the top left)

SOURCE: Light Fix (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-215-1

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow 1st from the top left)

SOURCE: 2"-119 (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-215-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-216-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-99 (White arrow on the fight center)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE	POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-217-1

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-120 (Black arrow 2nd from the top left)

SOURCE: 2"-119 (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-217-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-120 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-219-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-170 (White arrow on the top center)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

_____ X ____ ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-221-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-250 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-222-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-448 (Black arrow on the bottom right)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-223-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-436

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-224-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/8"-CH-436 (Black arrow on the bottom center)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-225-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-115 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-226-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-162 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

! X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-227-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-755 (Black arrow on the bottom)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-228-1

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-200 (Not shown)

SOURCE: 2"-119 (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-228-2

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-200 (Not shown)

SOURCE: 2"-592 (White arrow 2nd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-228-3

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-200 (Not shown)

SOURCE: 2"-479 (White arrow 3rd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

_____ X ____ ACCEPTABLE

_____ POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-228-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-CH-200 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-229-1

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-201 (Not shown)

SOURCE: 2"-119 (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-229-2

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-201 (Not shown)

SOURCE: 2"-592 (White arrow 2nd from the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-229-3

PHOTOGRAPH NO.: M-356

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-201 (Not shown)

SOURCE: 2"-479 (White arrow 3rd from the top)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

___i___ ACCEPTABLE	___X___ POTENTIALLY UNACCEPTABLE
J L Rodriguez 8/26/82	W.A. Griswold 9/27/82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-229-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-201 (Not shown)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 30A

LOCATION WITHIN FIRE ZONE: El-73'-0

POTENTIAL INTERACTION NO.: L-3-230-4

PHOTOGRAPH NO.: M-357

BACKGROUND NO.: 3-44

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-169 (White arrow on the bottom center)

SOURCE: Light Fix. (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-231-2

PHOTOGRAPH NO.: M-431

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (White arrow on the top right)

SOURCE: LIGHT FIX. (Not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-232-2

PHOTOGRAPH NO.: M-431

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-99 (Black arrow on the center)

SOURCE: LIGHT FIX. (Not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-234-1

PHOTOGRAPH NO.: M-430

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-169 (Black arrow 3rd from the top)

SOURCE: LIGHT FIX. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-235-1

PHOTOGRAPH NO.: M-430

BACKGROUND O.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-CH-169 (Black arrow 1st from the top)

SOURCE: LIGHT FIX. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-236-2

PHOTOGRAPH NO.: M-431

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-870 (White arrow on the top center)

SOURCE: LIGHT FIX. (Not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-238-1

PHOTOGRAPH NO.: M-430

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-375 (Black arrow 4th from the top)

SOURCE: LIGHT FIX. (White arrow in the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-238-2

PHOTOGRAPH NO.: M-431

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1"-CH-375 (Black arrow on the top left)

SOURCE: LIGHT FIX. (Not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/16/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-245-1

PHOTOGRAPH NO.: M-430

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-218 (Black arrow on the bottom center)

SOURCE: LIGHT FIX. (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 31A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-246-2

PHOTOGRAPH NO.: M-431

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-170 (White arrow on the top left)

SOURCE: LIGHT FIX. (Not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-247-1

PHOTOGRAPH NO.: M-351

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow on the center left)

SOURCE: 2"-City Water (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-247-2

PHOTOGRAPH NO.: M-351

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (Black arrow on the center left)

SOURCE: 3/4"-414 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-247-3

PHOTOGRAPH NO.: M-351

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

- TARGET: 2"-CH-27 (Black arrow on the top right)

  SOURCE: 2"-119 (Black arrow 2nd from the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-247-5

PHOTOGRAPH NO.: M-352

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (White arrow on the center right)

SOURCE: Light Fix. (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-247-6

PHOTOGRAPH NO.: M-353

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-CH-27 (White arrow on the center left)

SOURCE: Light Fix. (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-248-1

PHOTOGRAPH NO.: M-351

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-296 (Not shown)

SOURCE: 2"-City Water (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

/ ACCEPTABLE	X POTENTIALLY UNACCEPTABLE
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INTERACTION ENGINEER/DATE	VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-248-2

PHOTOGRAPH NO.: M-351

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-296 (Not shown)

SOURCE: 3/4"-414 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

J L Rodriguez 8/26/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/27/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 32A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: L-3-248-5

PHOTOGRAPH NO.: M-352

BACKGROUND NO.: 3-45

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4"-CH-296 (White arrow on the bottom left)

SOURCE: Light Fix. (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

/	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
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INTERACTION ENGINEER/DATE		VERIFIED/DATE	