Des 50-286 Court i # 8312060165 Date 11/30/83 of Document: REGULATORY DOCKET FILE

Indian Point 3 Nuclear Power Plant

Systems
Interaction
Study Report

Volume 23



Indian Point 3 Nuclear Power Plant

Systems Interaction Study Report

Volume 23

COPY NUMBER ____3



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.
- 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

						•
BUILDING: AUXILIARY FEEDWAT	ER BUILDING					
FIRE ZONE: 23				•	•	
LOCATION WITHIN FIRE ZONE:	N.A.					
POTENTIAL INTERACTION NO.:	V-23-75-2					
PHOTOGRAPH NO.: M450						**
BACKGROUND NO.: 2	3-83	v.		·		
IDENTIFICATION OF INTERACTIO	ON COMPONENT	rs:				
TARGET: FC-A (#1121)	SOV-1321	(CONTROL	VALVE	IN RIGHT	CORNER)	
			٠			•
SOURCE: LIGHT FIXTURE		(RIGHT A	RROW)			
DESCRIPTION OF POSTULATED IN	TERACTION:					
SOURCE FALLS ON T	ARGET	. •				
EVALUATION OF INTERACTION:					·	
EVALUATION NOTE NO:	3					
XACCEPTABLE				· · · · · · · · · · · · · · · · · · ·		NTIALLY CEPTABLE
D MIRKOVIC 9/13/82			W GRIS	SWOLD	9/24/82	
INTERACTION ENGINEER / DATE				VERIF	IED/DATE	

INTERACTION ENGINEER / DATE	VER	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
Target is Screened from source.		
EVALUATION NOTE NO: 4		
EVALUATION OF INTERACTION:		
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET		
SOURCE: 4" FLOOR DRAIN (ARROW	<i>(</i>)	
TARGET: 2"-VA (BOTTO	OM CENTER)	
IDENTIFICATION OF INTERACTION COMPONENTS:	· -	
	,	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M449		
POTENTIAL INTERACTION NO.: V-23-76-1		
LOCATION WITHIN FIRE ZONE: N.A.	• .	
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		
	•	

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-72-2

PHOTOGRAPH NO.: M450

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2"-VA

(HIDDEN)

SOURCE: LIGHT FIXTURE (ARROWS)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC INTERACTION ENGINEER / DATE W GRISWOLD

9/24/82

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-77-1

PHOTOGRAPH NO.: M449

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2" VB (BOTTOM CENTER)

SOURCE: 4" FLOOR DRAIN

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Target is Screened from Source.

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC INTERACTION ENGINEER/DATE W GRISWOLD

9/24/82

D MIRKOVIC 9/13/82 W INTERACTION ENGINEER/DATE	GRISWOLD 9/24/82 VERIFIED/DATE
XACCEPTABLE	POTENTIALLY
•	
,	•
EVALUATION NOTE NO: 3	·
EVALUATION OF INTERACTION:	,
SOURCE FALLS ON TARGET	,
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: LIGHT FIXTURE (RIGHT ARROW)	
TARGET: 2"-VB (BOTTOM NEAR CENTER)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 23-83	
PHOTOGRAPH NO.: 450	
POTENTIAL INTERACTION NO.: V-23-77-2	
	ν,
FIRE ZONE: 23	
BUILDING: AUXILIARY FEEDWATER BUILDING	

D MIRKOVIC

INTERACTION ENGINEER/DATE

9/13/82

9/24/82

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: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZCNE: N.A.	
POTENTIAL INTERACTION NO.: V-23-78-2	
PHOTOGRAPH NO.: M450	•
BACKGROUND NO.: 23-83	• 7
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: BFD-77 (HAND WHEEL IN CENTER OF PHOTO)	
SOURCE: LIGHT FIXTURE (RIGHT ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
ACCEPTABLE	POTENTIALLYUNACCEPTABLE

Ebasco Services Incorporated

W GRISWOLD

BUILDING:	AUXILIARI	LEEDWAIEK	ROILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-79-2

PHOTOGRAPH NO.: M450

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

BFD-78 (HAND WHEEL IN CENTER OF PHOTO)

SOURCE: LIGHT FIXTURE (LEFT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE

W GRISWOLD 9/24/82

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D MIRKOVIC 9/13/82

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-80-2	
PHOTOGRAPH NO.: M450	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: BFD-65-2 (DRAIN VALVE - NOT VISIBLE)	
SOURCE: LIGHT FIXTURE (LEFT ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TRAGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
ACCEPTABLE	TENTIALLY ACCEPTABI

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W GRISWOLD

9/24/82

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	;	
FIRE ZONE: 23	v.	
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-81-2		
PHOTOGRAPH NO.: M450		
BACKGROUND NO.: 23-83		ı
- , [']		·
IDENTIFICATION OF INTERACTION COMPONENT	TS:	
TARGET: FC-B SOV-1323	(CONTROL VALVE IN FROM OF LOU	JVER)
SOURCE: LIGHT FIXTURE	(LEFT ARROW)	
DESCRIPTION OF DOCTOR AND TAMED CONTON		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:	·	
EVALUATION NOTE NO: 3	×.	•
		DOTENTT AT T
XACCEPTABLE		POTENTIALLY —UNACCEPTABI
D MTRKOVIC 9/13/82	W CRISMOID	9/24/82

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INTERACTION ENGINEER / DATE

9/13/82

9/24/82

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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: AUXILIARY FEEDWATER BUILDING	, ,
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	•
POTENTIAL INTERACTION NO.: V-23-82-2	
PHOTOGRAPH NO.: M450	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: 2"-VC (CHECK VALVE HIDDEN IN LOWE	CR LEFT)
SOURCE: LIGHT FIXTURE (LEFT ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
XACCEPTABLE	POTENTIALLY UNACCEPTABLE

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W GRISWOLD

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23	•	
LOCATION WITHIN FIRE ZCNE: N.A.		
POTENTIAL INTERACTION NO.: V-23-83-2		
PHOTOGRAPH NO.: M450		
BACKGROUND NO.: 23-83	. •	
IDENTIFICATION OF INTERACTION COMPONEN	TS:	
TARGET: 2"-VD	(HIDDEN IN LOWER LEFT)	
SOURCE: LIGHT FIXTURE	(LEFT ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	· .	
SOURCE FALLS ON TARGET		•
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
INTERACTION ENGINEER / DATE	VERIFI	ED/DATE

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BUILDING: AUXILIARY FEEDWATER BUILDI	NG .			
FIRE ZONE: 23				,
LOCATION WITHIN FIRE ZCNE: N.A.				
POTENTIAL INTERACTION NO.: V-23-87-	1	,		
PHOTOGRAPH NO.: M441				
BACKGROUND NO.: 23-83		•		
IDENTIFICATION OF INTERACTION COMPONE	ENTS:			
TARGET: BFD-73	(VERTICI	E LINE II	N CENTER)	
SOURCE: LIGHT FIXTURE	(RIGHT A	ARROW)		
DESCRIPTION OF POSTULATED INTERACTION	1:			
SOURCE FALLS ON TRAGET				
EVALUATION OF INTERACTION:				
EVALUATION NOTE NO: 3		,		
XACCEPTABLE				POTENT: UNACCE
D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE		W GRIS	IOLD	9/24/82

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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-87-2

PHOTOGRAPH NO.: M441

BACKGROUND NO.: 23-93

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-73 (CENTER OF PHOTO)

SOURCE: SPACE HEATER (TOP ARROW) (ELECTRIC)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source may damage 1" valve.

ACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

INTERACTION ENGINEER/DATE	VERI	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET		
	r Arrow)	
TARGET: BFD-74 (CENTER OF PHOTO)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M441		
POTENTIAL INTERACTION NO.: V-23-88-1		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

System No.	. 23
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			-	
BUILDING: AUXILIARY FEEDWATER BUILDING	,	ı		
FIRE ZONE: 23				
LOCATION WITHIN FIRE ZONE: N.A.		,		
POTENTIAL INTERACTION NO.: V-23-88-2				
PHOTOGRAPH NO.: M441				•
BACKGROUND NO.: 23-83				
IDENTIFICATION OF INTERACTION COMPONENT	rs:			
TARGET: BFD-74	(CENTER	OF PHOTO)		
	•		•	
SOURCE: SPACE HEATER	(TOP AR	ROW)		
				•
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET				· ·
EVALUATION OF INTERACTION:				
EVALUATION NOTE NO: 5		•	•	
Same as V-23-87-27				
ACCEPTABLE	,	X		POTENTIALLY
	•		***	UNACCEPTABLE
D MIRKOVIC 9/13/82	٠ -	W GRISWOLD		/24/82
INTERACTION ENGINEER / DATE		· VEI	RIFIED/I	DATE

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
XACCEPTABLE		POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
SOURCR FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:	-	
LIGHT TIXTORE		
SOURCE: LIGHT FIXTURE (RIGHT ARROW)		
TARGET: PCV-1213 (NOT VISIBLE)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		•
PHOTOGRAPH NO.: M441		
POTENTIAL INTERACTION NO.: V-23-89-1		
LOCATION WITHIN FIRE ZCNE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

D MIRKOVIC

INTERACTION ENGINEER/DATE

9/13/82

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

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BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-89-2	
PHOTOGRAPH NO.: M441	•
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS	:
TARGET: PCV-1213 (NOT VISIBLE)
SOURCE: SPACE HEATER (TOP ARROW) (ELECTRIC)
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	•
EVALUATION NOTE NO: 5	
Same as V-23-87-2	
ACCEPTABLE	X POTENTIALLY UNACCEPTABLE

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W GRISWOLD

9/24/82

BUILDING:

AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-90-1

PHOTOGRAPH NO.: M441

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-73 (NOT VISIBLE)

SOURCE: LIGHT FIXTURE (LEFT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY X ACCEPTABLE -UNACCEPTABLE D MIRKOVIC 9/13/82
INTERACTION ENGINEER/DATE 9/24/82 W GRISWOLD VERIFIED/DATE

9/24/82

VERIFIED/DATE

W GRISWOLD

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

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZCNE: N.A.
POTENTIAL INTERACTION NO.: V-23-90-2
PHOTOGRAPH NO.: M441
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: BFD-73 (NOT VISIBLE)
SOURCE: SPACE HEATER (ELECTRIC) (TOP ARROW)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Same as V-23-87-2
ACCEPTABLE X POTENTIALLY UNACCEPTABL

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D MIRKOVIC 9/13/82

INTERACTION ENGINEER/DATE

· · · · · · · · · · · · · · · · · · ·	
BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-91-1	•
PHOTOGRAPH NO.: M441	
BACKGROUND NO.: 23-83	
	•
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: BFD-75 (3/4") (NEAR BOTTOM OF T	URBINE SKID)
SOURCE: LIGHT FIXTURE (RIGHT ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO:	
ACCEPTABLE	POTENTIALLY ————UNACCEPTABLE
D MIRKOVIC 9/13/82 W INTERACTION ENGINEER/DATE	GRISWOLD 9/24/82 VERIFIED/DATE
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BUILDING: AUXILIARY FEEDWATER BUILDING		•
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE: N.A.		
POTENTIAL INTERACTION NO.: V-23-91-2		
PHOTOGRAPH NO.: M441		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: BFD-75 (3/4") (NEAR BOTTOM OF TUR	BINE SKID)	·
SOURCE: SPACE HEATER (TOP ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:		-
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 5		
SOURCE MAY DAMAGE 3/4" Valve.		
ACCEPTABLE	Х	POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE	W GRISWOLD VERIFI	9/24/82 ED/DATE

В	UΙ	Τ.	D.	T٦	JG.	:

AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-91-3

PHOTOGRAPH NO.:

M442

BACKGROUND NO.:

23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-75 (3/4") (NOT SHOWN)

SOURCE: 1" CONDUIT (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE

W GRISWOLD

9/24/82

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D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE	VERIFIED/DATE	_
D MIRKOVIC 9/13/82	W GRISWOLD 9/24/82	
XACCEPTABLE	POTENTIALLY	
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
•		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE (LEFT TOP AR	RROW)	
TARGET: CD-123 (LEFT BOTTOM	f OF SKID)	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M441		
POTENTIAL INTERACTION NO.: V-23-92-1		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23	,	
BUILDING: AUXILIARY FEEDWATER BUILDING		

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EVALUATION	SHEET .	
		·
BUILDING: AUXILIARY FEEDWATER BUILDING	-	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.	\$*	
POTENTIAL INTERACTION NO.: V-23-92-2		
PHOTOGRAPH NO.: M441		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		•
TARGET: CD-123 (LEFT BOTTO	OM OF SKID)	
SOURCE: SPACE HEATER (ELECTRIC)	(TOP ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:	•	•
EVALUATION NOTE NO: 4 Source is Screened from Target		
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
INTERACTION ENGINEER / DATE	VERTE	FIED/DATE -

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING		-
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE: N.A.		
POTENTIAL INTERACTION NO.: V-23-92-3		
PHOTOGRAPH NO.: M442		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
TARGET: CD-123 (NOT SHOWN)		
SOURCE: 1" CONDUIT (ARROW)		
DESCRIPTION OF POSTULATED INTERACTION:	•	
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO:		
Source is Screened from Target .		
X ACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82

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BUILDING: AUXILIARY FEEDWATER BU	JILDING			
FIRE ZONE: 23			•	
LOCATION WITHIN FIRE ZONE: N.A.				
POTENTIAL INTERACTION NO.: V-23	3-93-1			
PHOTOGRAPH NO.: M441				
BACKGROUND NO.: 23-83				
	•			
IDENTIFICATION OF INTERACTION CO	MPONENTS:			
TARGET: CD-121	(NOT VISIBLE	- ON NEAR	SIDE OF	TURBINE)
	,			
SOURCE: LIGHT FIXTURE	(LEFT TOP ARE	ROW)		
DECORED OF DOORS AND THE	·			
DESCRIPTION OF POSTULATED INTERA	CTION:			
SOURCE FALLS ON TARGET	[ŭ.	•
EVALUATION OF INTERACTION:				
EVALUATION NOTE NO:	3			
•				
· .	•			DOMPNMT AT TY
XACCEPTABLE				POTENTIALLYUNACCEPTABLE
D MIRKOVIC 9/13/82		W GRISW	OLD	9/24/82
INTERACTION ENGINEER / DATE			VERIFIE	

AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-93-2

PHOTOGRAPH NO.: M442

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CD-121

(NOT SHOWN)

SOURCE: 1" CONDUIT

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Target is Screened from Source

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKVOIC

9/13/82

INTERACTION ENGINEER / DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZCNE: N.A.	
POTENTIAL INTERACTION NO.: V-23-94-1	
PHOTOGRAPH NO.: M441	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CD-124 (NOT VISIBLE - NEAR BOTTOM OF	SKID)
SOURCE: LIGHT FIXTURE (TOP RIGHT ARROW)	<i>j</i>
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALL ON TARGET	·
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
x	
ACCEPTABLE	POTENTIALLY UNACCEPTABLE
	/24/82

BUILDING: AUXILIARY FEEDWATER BUILDING	,	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-95-1		
PHOTOGRAPH NO.: M441		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CD-124 (NOT VISIBLE	- NEAR BOTTOM OF SKID)	
SOURCE: LIGHT FIXTURE (TOP LEFT ARR	(OW)	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALL ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO:	-	
Target is Screened from Source.		
ACCEPTABLE	POTENTIALLY UNACCEPTABI	_
D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE	W GRISWOLD 9/24/82	
INTERACTION ENGINEER/DATE	VERIFIED/DATE	

INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-95-2 PHOTOGRAPH NO.: M442 BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CD-124 (NOT VISIBLE	E) ` `	
SOURCE: 1" Conduit		
DESCRIPTION OF POSTULATED INTERACTION:	•	
SOURCE FALLS ON TARGET	•	
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 4		
Source is Screened from Target.		
XACCEPTABLE		POTENTIALLYUNACCEPTABLI
. n MIRKOVIC 9/13/82	W GRISWOLD	9/24/82

Ebasco Services Incorporated

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Sheet	of	413

System No. 23

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

INTERACTION ENGINEER / DATE	VERI	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
X ACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
SOURCR FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE (LEFT TOP ARROV	7)	
TARGET: CD-125		
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M441	•	
POTENTIAL INTERACTION NO.: V-23-96-1	•	
LOCATION WITHIN FIRE ZONE: N.A.		•
FIRE ZONE: 23		•
BUILDING: AUXILIARY FEEDWATER BUILDING		

INTERACTION ENGINEER / DATE	VERIF	ED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE (LEFT TOP A)	RROW)	
TARGET: CD-125		:
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M441		
POTENTIAL INTERACTION NO.: V-23-97-1		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

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INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	·
POTENTIAL INTERACTION NO.: V-23-98-5	
PHOTOGRAPH NO.: M448	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: LCV-1158 (BETWEEN - VERTICLE LINE ON RIGHT)	
SOURCE: LOUDSPREAKER (TOP ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target .	
Δ ΔΙΤΕΡΙΙΔΕΙΕ	POTENTIALLY UNACCEPTABLE
D MIDVOUTC 0/12/92 U CDISTIOID 9/2	4/82

Ebasco Services Incorporated

D MIRKOVIC 9/13/82

INTERACTION ENGINEER/DATE

9/24/82

W GRISWOLD

VERIFIED/DATE

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

DUTE TO AUNTITADY REEDILAMED BUTTOTNO			
BUILDING: AUXILIARY FEEDWATER BUILDING			
FIRE ZONE: 23			•
LOCATION WITHIN FIRE ZONE: N.A.			
POTENTIAL INTERACTION NO.: V-23-98-6			
PHOTOGRAPH NO.: M448			
BACKGROUND NO.: 23-83			
-			
IDENTIFICATION OF INTERACTION COMPONENTS:		•	
TARGET: LCV-1158			
SOURCE: 12"-#1070 (BOTTOM ARROW)			
DESCRIPTION OF POSTULATED INTERACTION:			
SOURCE FALLS ON TARGET			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 6			
			•
ACCEPTABLE	х		ENTIALLY CCEPTABLI

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZCNE: N.A.
POTENTIAL INTERACTION NO.: V-23-99-1
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-86 (1") (NOT SHOWN)
SOURCE: LIGHT FIXTURE (TOP ARROW)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCR FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X POTENTIALLY UNACCEPTABLE UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82

Ebasco Services Incorporated

INTERACTION ENGINEER/DATE

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

PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	•
TARGET: CT-86 (1")	
SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	·
Course to Company from Toward	
Source is Screened from Target.	

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INTERACTION ENGINEER / DATE	VERI	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE		POTENTIALLY ——UNACCEPTABLE
Source is Screened from Target		
EVALUATION NOTE NO: 4		·
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LOUDSPEAKER (TOP ARROW)		
TARGET: CT-86 (1") (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M448		
POTENTIAL INTERACTION NO.: V-23-99-5	·	
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-99-6

PHOTOGRAPH NO.: M448

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-86 (1") (NOT SHOWN)

(BOTTOM ARROW)

SOURCE: 12" #1070

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEI	DWATER BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-100-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-64

(LOWER RIGHT CORNER)

SOURCE: LIGHT FIXTURE (TOP ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-100-4	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-64 (LOWER RIGHT CORNER)	
SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target	
X ACCEPTABLE	POTENTIALLY
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/8	-UNACCEPTABLI 2

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BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-100-5

PHOTOGRAPH NO.: M448

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-64

(BOTTOM CENTER)

SOURCE: LOUDSPEAKER

(TOP ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER / DATE

9/13/82

9/24/82

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: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-100-6	•
PHOTOGRAPH NO.: M448	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-64 (CENTER BOTTOM)	
SOURCE: 12"-#1070 (BOTTOM ARROW)	
	-
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 6	
ACCEPTABLE	OTENTIALLY
	NACCEPTABI

Ebasco Services Incorporated

W GRISWOLD

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-102-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-82-(1'' DR)

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(TOP ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE

W GRISWOLD

9/24/82

BUILDING: AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-101-3

PHOTOGRAPH NO.: M443

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1"DR)

(NOT SHOWN)

SOURCE: 2" STATION AIR

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source is Screened from Target

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER/DATE

INTERACTION ENGINEER / DATE	VERIFI	ED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE	· · · · · · · · · · · · · · · · · · ·	POTENTIALLY UNACCEPTABLE
Source is Screened from Target		
EVALUATION NOTE NO: 4		-
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER (SECOND ARRO	OW FROM TOP)	
TARGET: CT-82 (1"DR) (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-101-4		
LOCATION WITHIN FIRE ZCNE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-101-5

PHOTOGRAPH NO.: M448

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-82 (1"DR)

(NOT SHOWN)

SOURCE: LOUDSPEAKER (TOP ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

X ___ ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/24/82

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	·
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	·
POTENTIAL INTERACTION NO.: V-23-101-6	
PHOTOGRAPH NO.: M448	
BACKGROUND NO.: 23-83	•
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-82 (1"DR) (NOT SHOWN)	
SOURCE: 12-#1070 (BOTTOM ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALL ON TARGET	-
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target.	
X ACCEPTABLE	POTENTIALLYUNACCEPTABL
D MIRIOVIC 9/13/82 W GRISWOLD	9/24/82

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BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-102-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-83 (1" VENT)

(CENTER TOP)

SOURCE: LIGHT FIXTURE

(TOP ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE .

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	,
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZCNE: N.A.	
POTENTIAL INTERACTION NO.: V-23-102-4	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-83 (1"VENT) (CENTER TOP)	
SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source will not fall enough to damage target	
A AULEPIABLE	POTENTIALLY UNACCEPTABLE
•	
D MIRKOVIC 9/13/82 W GRISWOLD 9/24	/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERIFIED/I	DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
		UNACCEPTABLE
XACCEPTABLE		POTENTIALLYUNACCEPTABLE
Source cannot impact target before	striking intervening	component.
EVALUATION NOTE NO: 4	·	
EVALUATION OF INTERACTION:		
. SOURCE FALL ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LOUDSPEAKER (TOP ARROW)	•	
TARGET: CT-83 (1"VENT) (TOP CENTER)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M448		
POTENTIAL INTERACTION NO.: V-23-102-5		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		,

DOTFDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-102-6

PHOTOGRAPH NO.: M448

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-83 (1"VENT)

SOURCE: 12''-#1070 (BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source will Impact Header before Striking Target.

X ACCEPTABLE

POTENTIALLY

D MIRKOVIC 9/13/82

INTERACTION ENGINEER / DATE

W GRISWOLD

9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-103-1
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-29 (NOT VISIBLE)
SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X POTENTIALLY UNACCEPTABLE UNACCEPTABLE

VERIFIED/DATE

INTERACTION ENGINEER / DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-103-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-29

(NOT VISIBLE)

SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	•	
FIRE ZONE: 23	-	
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-103-3		•
PHOTOGRAPH NO.: M443		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-29 (NOT SHOWN)		I
SOURCE: 2" STATION AIR (ARROW)	,	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 2		
XACCEPTABLE	·	POTENTIALLY ——UNACCEPTABL
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE: N.A.		
POTENTIAL INTERACTION NO.: V-23-104-1		
PHOTOGRAPH NO.: M444		
BACKGROUND NO.: 23-83		
,		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-30 (NOT SHOWN)		
SOURCE: LIGHT FIXTURE (TOP ARROW)		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
ACCEPTABLE		POTENTIALLYUNACCEPTABLE
D MTRKOVTC 9/13/82	M CRICMOID	9/24/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-104-2	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	,
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-30 (NOT SHOWN)	
SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target	
X ACCEPTABLE POTENTIALLY UNACCEPTABLE	
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82	

AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-104-3

PHOTOGRAPH NO.: M443

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-30

(NOT SHOWN)

SOURCE: 2" STATION AIR

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

ACCEPTABLE

POTENTIALLY · -UNACCEPTABLE

D MIRKOVIC 9/13/81 INTERACTION ENGINEER / DATE

9/24/82

VERIFIED/DATE

INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	•
POTENTIAL INTERACTION NO.: V-23-105-1	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
	,
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-35 (NOT SHOWN)	
SOURCE: LIGHT FIXTURE (TOP ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	•
.	DOTESTA 7 7 3
ACCEPTABLE	POTENTIALLY

Ebasco Services Incorporated

POTENTIALLY

UNACCEPTABLE

9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

ACCEPTABLE

D MIRKOVIC

INTERACTION ENGINEER / DATE

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

·
FIRE ZONE: 23
LOCATION WITHIN FIRE ZCNE: N.A.
POTENTIAL INTERACTION NO.: V-23-105-2
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-35 (NOT SHOWN)
SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
$oldsymbol{\cdot}$
EVALUATION NOTE NO: 4
Source is Screened from Target

Ebasco Services Incorporated

W GRISWOLD

INTERACTION ENGINEER/DATE	VERIF	IED/DATE
D MIRKOVIC 9/13/81	W GRISWOLD	9/24/82
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:	·	
SOURCE: LIGHT FIXTURE (TOP ARROW)		
TARGET: CT-83 (1"VENT) (NEAR PUMP -	- NOT SHOWN)	
IDENTIFICATION OF INTERACTION COMPONENTS:		
IDENTITY OF TAXABLE OF	* .	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-106-1		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-106-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-83 (1"VENT)

(NEAR PUMP NOT SHOWN)

SOURCE: SPACE HEATER (SECOND ARROW FROM TOP)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source cannot Impact Target Directly.

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-106-3
PHOTOGRAPH NO.: M443
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-83 (1"VENT) (NOT SHOWN-NEAR PUMP)
SOURCE: 2" STATION AIR (ARROW)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 4
Source is Screened from Target
X POTENTIALLY UNACCEPTABLE UNACCEPTABL
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILD:	ING
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FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-107-1

PHOTOGRAPH NO.:

M441

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-94 (1/2")

(TEST CONNECTION - NEAR PUMP)

SOURCE: LIGHT FIXTURE

(LEFT TOP - ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Intervening Components will Prevent Direct Impact.

POTENTIALLY ACCEPTABLE -UNACCEPTABLE D MIRKOVIC 9/13/81 W GRISWOLD 9/24/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE	W GRISWOLD VEI	9/24/82 RIFIED/DATE
ACCEPTABLE	X	POTENTIALLYUNACCEPTABL
EVALUATION NOTE NO: 6		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERAC	rion:	
SOURCE: SPACE HEATER	(ELECTRIC-TOP ARROW)	
TARGET: CT-94 (1/2")	(NEAR PUMP- NOT SHOWN)	
IDENTIFICATION OF INTERACTION COM	PONENTS:	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M441	3 107 2	
POTENTIAL INTERACTION NO.: V-2	3-107-2	
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-I08-1

PHOTOGRAPH NO.: M441

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-94 (1/2")

SOURCE: LIGHT FIXTURE (LEFT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

See V-23-10701

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

D MIRKOVIC 9/13/81 INTERACTION ENGINEER/DATE		ED/DATE
D MIRKOVIC 9/13/81	W GRISWOLD	9/24/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
See V-23-107-2		
EVALUATION NOTE NO: 6		
EVALUATION OF INTERACTION:		•
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER (TOP ARROW)		
TARGET: CT-94 (1/2")		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHCTOGRAPH NO.: M441		
POTENTIAL INTERACTION NO.: V-23-108-2		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING	•	
·		

BUILDING: AUXILIARY FEEDWATER BUI	LDING	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.	,	
POTENTIAL INTERACTION NO.: V-23	3-109-1	
PHOTOGRAPH NO.: M444		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMP	ONENTS:	
TARGET: CT-59 (1/2")	(NOT SHOWN)	
SOURCE: LIGHT FIXTURE	(THIRD ARROW FROM BOTTOM)	
DESCRIPTION OF POSTULATED INTERACT	TON.	
SOURCE FALLS ON TARGET	ION:	
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3	···	
X ACCEPTABLE	,	POTENTIALLY
ACOBI TABBE	 {	UNACCEPTABLE
D MIRKOVIC 9/13/82	<u> </u>	
INTERACTION ENGINEER / DATE	VERIFIED/DATE	E

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-109-2
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-59 (1/2") (NOT SHOWN)
SOURCE: SPACE HEATER (SECOND ARROW FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 5
Source may have Sufficient Mass to Damage Target.
ACCEPTABLE X POTENTIALLY UNACCEPTABL
D MIRKOŪIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: AXUILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-110-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-59 (1/2")

SOURCE: LIGHT FIXTURE

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

See V-23-109-1

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE		TIED/DATE
D MTRYOUTC 9/13/82	W_GRISWOLD	9/24/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLI
See V-23-109-2		
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
		•
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER		
TARGET: CT-59 (1/2"),		
IDENTIFICATION OF INTERACTION COMPONENTS:		
·		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		•
POTENTIAL INTERACTION NO.: V-23-110-2	•	•
LOCATION WITHIN FIRE ZCNE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

INTERACTION ENGINEER/DATE	VERIF	IED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
		UNACCEPTABLE
X ACCEPTABLE		POTENTIALLY
•		
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		,
SOURCE: LIGHT FIXTURE (TOP ARROW)		
TARGET: CT-32 (NOT SHOWN)	1	
IDENTIFICATION OF INTERACTION COMPONENTS:		-
*		
BACKGROUND NO.: 23-28		
PHOTOGRAPH NO.: M444		•
POTENTIAL INTERACTION NO.: V-23-111-1		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	, ,	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE: N.A.	,	
POTENTIAL INTERACTION NO.: V-23-111-2		
PHOTOGRAPH NO.: M444		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-32 (NOT SHOWN)		
SOURCE: SPACE HEATER (SECOND ARROV	FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 3		
•		
X ACCEPTABLE		POTENTIALLY ———UNACCEPTABLE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE		VERI	FIED/DATE
D MIRKOVIC 9/13/82	-	W GRISWOLD	9/24/82
X ACCEPTABL	E		POTENTIALLY UNACCEPTABL
EVALUATION NOTE NO:			
EVALUATION OF INTERACTION:			
SOURCE FALLS ON	N TARGET		
DESCRIPTION OF POSTULATED	INTERACTION:		·
SOURCE: 2" STATION	AIR (THIRD ARROW	FROM TOP) .	
TARGET: CT-32	(NOT SHOWN)	•	
IDENTIFICATION OF INTERACT	TION COMPONENTS:	•	
BACKGROUND NO.: 23-83			
PHOTOGRAPH NO.: M444			
POTENTIAL INTERACTION NO.:	V-23-111-3		I
LOCATION WITHIN FIRE ZONE:	N.A.		
FIRE ZONE: 23	,		•
BUILDING: AUXILIARY FEEDW	WATER BUILDING	·	
•			

INTERACTION ENGINEER / DATE	VERIFIED/DATE
D MIRKOVIC 9/13/82 W GRISW	
XACCEPTABLE	POTENTIALLY UNACCEPTABLI
•	
· · · · · · · · · · · · · · · · · · ·	
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	
COULTE TENNET	
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET	
SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM	
TARGET: CT-33 (BOTTOM CENTER)	·
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 23-83	
PHOTOGRAPH NO.: M444	•
POTENTIAL INTERACTION NO.: V-23-112-1	
LOCATION WITHIN FIRE ZONE: N.A.	
FIRE ZONE: 23	
BUILDING: AUXILIARY FEEDWATER BUIDLING	
	•

BUILDING: AUXILIARI FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-112-2
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-33 (BOTTOM CENTER)
SOURCE: SPACE HEATER (SECOND ARROW FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO. 3

ACCEPTABLE

D MIRKOVIC 9/13/82

INTERACTION ENGINEER/DATE

POTENTIALLY
UNACCEPTABLE

W GRISWOLD 9/24/82

VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER / DATE

9/13/82

9/24/82

VERIFIED/DATE

W GRISWOLD

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	,
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-112-3	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-33 (NOT SHOWN)	
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	•
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 2	
•	
XACCEPTABLE	POTENTIALLY —UNACCEPTABLE

INTERACTION ENGINEER/DATE	VERI	FIED/DATE
D MIRKOVIC 9/13/81	W GRISWOLD	9/24/ 82
ACCEPTABLE	 	UNACCEPTABLI
		POTENTIALLY
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE (THIRD	ARROW FROM BOTTOM)	
TARGET: CT-35 (NOT SI	iown)	
IDENTIFICATION OF INTERACTION COMPONENTS	•	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-113-1		·
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		:
•		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING: AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-113-2

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-35

(NOT SHOWN)

SOURCE: SPACE HEATER (SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source may Damage Target

ACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE

POTENTIALLY -UNACCEPTABLE

W GRISWOLD

9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-113-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-35

(NOT SHOWN)

SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source is Screened from Target

XACCEPTABLE	POTENTIALLY ——UNACCEPTABLE
D MIRKOVIC 9/13/82	W GRISWOLD 9/24/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

Ebasco Services Incorporated

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-114-1

PHOTOGRAPH NO.:

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-84 (1/2")

(VENT)-(NOT VISIBLE)

SOURCE:

LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE	POTENTIALLY
	UNACCEPTABLE
D MIRKOVIC 9/13/82	W GRISWOLD 9/24/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

•		
BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE: N.A.	•	
POTENTIAL INTERACTION NO.: V-23-114-2		
PHOTOGRAPH NO.: M444		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-84 (1/2") (NOT VISIBLE)	•	
SOURCE: SPACE HEATER (SECOND ARROW	FROM BOTTOM)	
DESCRIPTION OF POSTULATED INTERACTION:		
DESCRIPTION OF FOSTULATED INTERACTION:		•
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 4		
Source cannot Impact Target		
ACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE	W GRISWOLD VER	9/24/82 · · · · · · · · · · · · · · · · · · ·

INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING		,
FIRE ZONE: 23		. 1
LOCATION WITHIN FIRE ZONE: N.A.		. 1
POTENTIAL INTERACTION NO.: V-23-114-3		
PHOTOGRAPH NO.: M444		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-84 (1/2") (NOT VISIBLE)		
SOURCE: 2" STATION AIR (THREE FROM TOP))	·
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		•
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 4		
Source is Screened from Target		
XACCEPTABLE		POTENTIALLY UNACCEPTABL
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82

Ebasco Services Incorporated

D MIRKOVIC

INTERACTION ENGINEER/DATE

9/13/82

9/24/82

VERIFIED/DATE

W GRISWOLD

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

·
BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-114-4
PHOTOGRAPH NO.: M446
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-84 (1/2") (OUT OF PHOTO TO RIGHT)
SOURCE: 4" FLOOR DRAIN (ARROW)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 6
ACCEPTABLE X POTENTIÁL UNACCEPTA

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
FIRE ZONE:	2	23	

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-115-1

PHOTOGRAPH NO.: M444

.

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-84 (1/2") (NOT SHOWN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9/13/81 W GRISWOLD 9/24/82

INTERACTION ENGINEER/DATE VERIFIED/DATE

INTERACTION ENGINEER/DATE	VERII	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
XACCEPTABLE	·	POTENTIALLY UNACCEPTABL
Source is Screened from Target		
EVALUATION NOTE NO:		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER (SECOND AND	RROW FROM BOTTOM)	·
TARGET: CT-84 (1/2") (NOT SHOWN	N)	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-115-2		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		•
AUVITADV PREDUATED DILI DING		

INTERACTION ENGINEER/DATE	VERIT	TIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 6		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:	•	,
SOURCE: 2" STATION AIR (THIRD ARRO	W FROM TOP)	
TARGET: CT-84-(1/2") (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-115-3		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		,

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Sheet		of	

System	No.	23
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INTERACTION ENGINEER / DATE .

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

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE: N.A.		
POTENTIAL INTERACTION NO.: V-23-115-4		
PHOTOGRAPH NO.: M446		
BACKGROUND NO.: 23-83		
	-	
IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: CT-84 (1/2") (NOT SHOWN)		
SOURCE: 4" FLOOR DRAIN (ARROW)		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 4	·	
Source is Screened from Target		
XACCEPTABLE		POTENTIALLY
D MIRKOVIC 9/13/82	W GRISWOLD	UNACCEPTABLE 9/24/82

Ebasco Services Incorporated

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-116-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-83 (1" VENT)

(NOT SHOWN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC - 9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-116-2

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-83 (1" VENT) (NOT SHOWN)

SOURCE: SPACE HEATER

(SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

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Sheet	of	

System	No.	23

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-116-3
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-83 (1" VENT) (NOT SHOWN)
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 4
Source is Screened from Target.
X ACCEPTABLE POTENTIALL UNACCEPTAB
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

DING
DIN

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-117-1

PHOTOGRAPH NO.: M452

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-94 (1/2") (NOT SHOWN)

SOURCE: LIGHT FIXTURE (RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9/13/82

W GRISWOLD 9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIF	IED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
XACCEPTABLE		POTENTIALLY UNACCEPTABL
See V-23-117-1		
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE (RIGHT ARROW	')	
TARGET: CT-94 (1/2")		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83	•	
PHOTOGRAPH NO.: M452		
POTENTIAL INTERACTION NO.: V-23-118-1		
LOCATION WITHIN FIRE ZCNE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		
		•

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-119-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.:

23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-59 (1/2") (NOT SHOWN)

SOURCE: LIGHT FIXTURE (Left Center Arrow)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERTET	ED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE		POTENTIALLY UNACCEPTABLI
	X	DOMESTON AT THE
Source may Damage Target		
EVALUATION NOTE NO: 5		·
•		;
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
DECEDEDATION OF PAGE 1		
SOURCE: SPACE HEATER (BOTTOM ARRO	(WC	·
(nommov, 1nn)	277	
TARGET: CT-59 (1/2") (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		·
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BACKGROUND NO.: 23-83 ,		
	•	
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-119-2		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		
		- · · · · · · · · · · · · · · · · · · ·

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-119-3
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-59 (1/2") (NOT SHOWN)
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 4
Source is Screened from Target.
XACCEPTABLEUNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE VERIFIED / D		ED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE		POTENTIALLYUNACCEPTABLE
Source is Screened.		
EVALUATION NOTE NO: 4		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 4" FLOOR DRAIN (ARROW)		
TARGET: CT-59 (1/2")		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	-	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M446		
POTENTIAL INTERACTION NO.: V-23-119-4		•
LOCATION WITHIN FIRE ZCNE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		
•	•	

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-120-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-26

(NOT VISIBLE)

SOURCE: LIGHT FIXTURE

(THIRD FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

• EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVI 9/13/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-120-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-26

(NOT VISIBLE)

SOURCE: SPACE HEATER

(SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC INTERACTION ENGINEER / DATE

W GRISWOLD 9/24/82

INTERACTION ENGINEER / DATE		FTED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
		CAACCEI TABBI
ACCEPTABLE		POTENTIALLY
X	-	
	•	
EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: (Initial Autow	11011 101)	
SOURCE: 2" STATION AIR (THIRD ARROW	FROM TOP)	
TARGET: CT-26 (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	•	
DACAGACUND NO.: 23-03		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-120-2		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

	BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-120-4

PHOTOGRAPH NO.:

M446

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-26

(NOT SHOWN)

SOURCE: 4" FLOOR DRAIN (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

POTENTIALLY ACCEPTABLE UNACCEPTABLE D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

Sheet	301	of	415

System	No.	23
		4.0

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-121-1

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-27

(HIDDEN AGAINST WALL)

SOURCE: LIGHT FIXTURE

(THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY ACCEPTABLE -UNACCEPTABLE D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATE	R BUILDING	
FIRE ZONE: 23	·	
LOCATION WITHIN FIRE ZONE:	N.A.	* *
POTENTIAL INTERACTION NO.:	V-23-121-2	
PHOTOGRAPH NO.: M444		-
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION	COMPONENTS:	
TARGET: CT-27	(HIDDEN AGAINST WALL)	
SOURCE: SPACE HEATER	(SECOND ARROW FROM BOT	TOM)
DESCRIPTION OF POSTULATED INTE	CRACTION:	
SOURCE FALLS ON TAI	RGET	
EVALUATION OF INTERACTION:	٠.	
EVALUATION NOTE NO: 3		. , .
•		
X ACCEPTABLE	•	POTENTIALLY ——UNACCEPTABLE
D MIRKOVIC 9/13/82	· W GRISV	√OLD 9/24/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERTETED	
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
X ACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION:	•	
SOURCE FALLS ON TARGET	·	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 2" STATION AIR (THIRD ARROW	FROM TOP)	
TARGET: CT-27 (AGAINST WAL	L - HIDDEN)	
IDENTIFICATION OF INTERACTION COMPONENTS:		•
BACKGROUND NO.: 23-83	·	
22.22		
7 23 121 3		
DOMPNING A TIMED I SEE ON THE		
LOCATION WITHIN FIRE ZONE: N.A.		·
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		•

INTERACTION ENGINEER / DATE	ひこって エ	TED / DAME
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
		CHACCLI IADLI
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 4" FLOOR DRAIN (ARROW)		
TARGET: CT-27 (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83	·,	
PHOTOGRAPH NO.: M446	•	
POTENTIAL INTERACTION NO.: V-23-121-4		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-122-1

PHOTOGRAPH NO.:

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

CT-35 TARGET:

(NOT SHOWN)

SOURCE:

LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE		POTENTIALLY UNACCEPTABLE	
D MIRKOVIC	9/13/82	W GRISWOLD	9/24/82
INTERACTION ENGINE	ER/DATE	VERIFIE	D/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE:

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-122-2

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-35

(NOT SHOWN)

SOURCE: SPACE HEATER

(SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source may Damage Target

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

DMIRKOVIC

INTERACTION ENGINEER / DATE

W GRISWOLD

9/24/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERTE	TED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE		POTENTIALLYUNACCEPTABLI
Source is Screened from Target		
4		
TIVALITATION NORTH NO	,	
EVALUATION OF INTERACTION:		•
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		·
SOURCE: 2" STATION AIR (THIRD ARROW	FROM TOP)	
TARGET: CT-35	. *	
IDENTIFICATION OF INTERACTION COMPONENTS:		
•		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-122-3		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZCNE: N.A.	
POTENTIAL INTERACTION NO.: V-23-122-4	,
PHOTOGRAPH NO.: M446	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-35	
SOURCE: 4" FLOOR DRAIN (ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO:	
Source is Screened from Target	
X POTENTI UNACCEP	

BUILDING: AXUILAIRY FEED	WATER BUILDING	
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-123-1

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-84 (1/2")

(NOT SHOWN)

SOURCE:

LIGHT FIXTURE

(THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source is Screened from Target

POTENTIALLY ACCEPTABLE -UNACCEPTABLE 9/24/82 W GRISWOLD D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIF	ED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	(?@\$?*@
XACCEPTABLE	······································	POTENTIALLY UNACCEPTABL
Source is Screened from Target.		
EVALUATION NOTE NO: 4		·
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER (BOTTOM ARROW))	
TARGET: CT-84 (1/2")		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-123-2	·	·
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

INTERACTION ENGINEER / DATE		VERIFI	ED/DATE
D MIRKOVIC 9/13/82		W GRISWOLD	9/24/82
ACCEPTABLE			POTENTIALLY UNACCEPTABL
	•		DORDVIET
Source is Screened fr	om Target.		
EVALUATION NOTE NO:	4		
EVALUATION OF INTERACTION:			
SOURCE FALLS ON TAR	NGE 1		
SOURCE FALLS ON TAR	•	· ·	·
DESCRIPTION OF POSTULATED INTE	ERACTION:		
SOURCE: 2" STATION AIR	(THIRD ARROW	FROM TOP)	
TARGET: CT-84 (1/2")			
IDENTIFICATION OF INTERACTION	. COMPONENTS:		
BACKGROUND NO.: 23-83			
PHOTOGRAPH NO.: M444			
POTENTIAL INTERACTION NO.:	V-23-123-3		·
LOCATION WITHIN FIRE ZCNE:	N.A.		
FIRE ZONE: 23			
BUILDING: AUXILIARY FEEDWATER	R BUILDING		•
•			

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-124-1	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-84 (1/2")	
SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: See V-23-123-1	
ALAGE LADIG.	POTENTIALLY UNACCEPTABLI

INTERACTION ENGINEER/DATE

9/24/82

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: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-124-2
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-84 (1/2")
SOURCE: SPACE HEATER (BOTTOM ARROWS)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 4
See V-23-123-2
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82

POTENTIALLY

-UNACCEPTABLE

W GRISWOLD 9/24/82

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: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-124-3
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-84 (1/2") (NOT VISIBLE)
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 4
Source is Screened from Target

Ebasco Services Incorporated

ACCEPTABLE

9/13/82

D MIRKOVIC

INTERACTION ENGINEER / DATE

INTERACTION ENGINEER / DATE

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

	•
BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-125-1	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	• • • • • • • • • • • • • • • • • • •
TARGET: CT-83 (1"VENT)	
SOURCE: LIGHT FIXTURE (THIRD A	ARROW FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
•	
ACCEPTABLE	POTENTIALL UNACCEPTAB
D MIRKOVIC 9/13/82	W GRISWOLD 9/24/82

Ebasco Services Incorporated

·
BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZCNE: N.A.
POTENTIAL INTERACTION NO.: V-23-125-2
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-83 (1" VENT)
SOURCE: SPACE HEATER (BOTTOM ARROW)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 4
Source cannot Impact Target
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

Ebasco Services Incorporated

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-125-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-83 (1"VENT)

SOURCE: 2" STATION AIR (THIRD FROM TOP)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source will not Impact Target

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-125-4		
PHOTOGRAPH NO.: M446		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	(TOP CENTER)	
	i	
SOURCE: 4" FLOOR DRAIN (ARROW)	-	r
	9	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
EVALUATION OF INTERACTION:		•
EVALUATION NOTE NO: 6		
DVALUATION NOTE NO. 0		
	-	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
	•	ONACCLI TABLE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
INTERACTION ENGINEER / DATE	VERT	TED/DATE

BUILDING:	AUXILIARY F	EEDWATE	R BUILDING
FIRE ZONE:	23		•
LOCATION WI	THIN FIRE Z	ONE: N	I.A.
POTENTIAL I	NTERACTION	NO.: V	7-23-126-1

PHOTOGRAPH NO.: M452

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-94 (1/2") (NOT SHOWN)

SOURCE: LIGHT FIXTURE (LEFT ARROWS)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9/13/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-127-1

PHOTOGRAPH NO.: M452

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-94 (1/2")

SOURCE: LIGHT FIXTURE (RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

See V-23-126-1

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

BULLDING: AUXILIARY FEEDWATER BUILDING	BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-128-1

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-59 (1/2")

SOURCE: LIGHT FIXTURE

(THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ___ACCEPTABLE

POTENTIALLY

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER / DATE

9/13/82

9/24/82

VERIFIED/DATE

W GRISWOLD

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

BUILDING: AUXILIARY FEEDWATER BUILDING	•
FIRE ZONE: 23	·
LOCATION WITHIN FIRE ZCNE: N.A.	
POTENTIAL INTERACTION NO.: V-23-128-2	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
-	
IDENTIFICATION OF INTERACTION COMPONENTS:	•
TARGET: CT-59 (1/2") (NOT SHOWN)	
SOURCE: SPACE HEATER (BOTTOM ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target	
X ACCEPTABLE	POTENTIALLYUNACCEPTABLE

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-128-3		
PHOTOGRAPH NO.: M444		
BACKGROUND NO.: 23-83		,
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-59 (1/2")		,
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE FALLS ON TARGET		
		,
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 2		
ACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRI	SWOLD 9/24,	

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	TTGTV	TED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
		,
ACCEPTABLE	Х	POTENTIALLY
EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 4" FLOOR DRAIN (ARROW)	•	
TARGET: CT-59 (1/2") (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:	·	
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M446		
POTENTIAL INTERACTION NO.: V-23-128-4		·
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-129-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-59 (1/2")

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

D MIRKOVIC 9/13/82
INTERACTION ENGINEER/DATE

POTENTIALLY
UNACCEPTABLE

W GRISWOLD 9/24/82
VERIFIED/DATE

	•
BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZCNE: N.A.	
POTENTIAL INTERACTION NO.: V-23-129-3	
PHOTOGRAPH NO.: M444	,
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-59 (1/2") (NOT SHOWN)	
•	
SOURCE: SPACE HEATER (BOTTOM ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target.	
XACCEPTABLE	POTENTIALLY —UNACCEPTABLE

W GRISWOLD 9/24/82

VERIFIED/DATE

D MIRKOVIC 9/13/82

INTERACTION ENGINEER/DATE

INTERACTION ENGINEER / DATE

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

	•
BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-130-2	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	•
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-57 (1/2") (NOT SHOWN)	
SOURCE: LIGHT FIXTURE (SECOND ARROW FROM BOTTOM)	
DESCRIPTION OF POSTULATED INTERACTION:	·
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	•
X ACCEPTABLE	POTENTIALLY —UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/8	2

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	•	
System	No.	23

INTERACTION ENGINEER / DATE	VERI	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE	Х ·	POTENTIALLYUNACCEPTABLE
Source may Damage Target.		
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:	•	•
SOURCE TALLS ON TARGET		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: SPACE HEATER (BOTTOM ARRO)	W)	
TARGET: CT-57 (1/2")		
IDENTIFICATION OF INTERACTION COMPONENTS:		
•		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-130-3	•	
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		
	,	

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-131-1
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-83 (VENT)
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO:
X DOTENTIALLY
ACCEPTABLE X POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82

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INTERACTION ENGINEER/DATE

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

BUILDING: AUXILIARY FEEDWATER BUI	ILDING	·		
FIRE ZONE: 23			ţ	
LOCATION WITHIN FIRE ZONE: N.A.				
POTENTIAL INTERACTION NO.: V-23-13	31-2			
PHOTOGRAPH NO.: M444				
BACKGROUND NO.: 23-83				
			•	,
IDENTIFICATION OF INTERACTION COMP	ONENTS:			
TARGET: CT-83	(VENT)	•		
SOURCE: LIGHT FIXTURE	(THIRD ARROW FRO	OM BOTTOM)		
DESCRIPTION OF POSTULATED INTERACT	ION:			
SOURCE FALLS ON TARGET			~	
EVALUATION OF INTERACTION:				
EVALUATION NOTE NO:	4			
Source will not Impact Targe	e t			
ACCEPTABLE	. —			POTENTIALLY -UNACCEPTABLE
D MIRKOIVIC 9/13/82	,	W GRISWOLD	9/24/	⁷ .82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERIF	VERIFIED/DATE	
D MIRKOVIC 9/13/82		9/24/82	
ACCEPTABLE	<u> </u>	POTENTIALLY UNACCEPTABLE	
Source may damage Target.			
EVALUATION NOTE NO: 5			
EVALUATION OF INTERACTION:	·		
SOURCE FALLS ON TARGET			
DESCRIPTION OF POSTULATED INTERACTION:			
SOURCE: SPACE HEATER (SECOND A	ARROW FROM TOP)		
TARGET: CT-83 (TOP CENT	TER)		
IDENTIFICATION OF INTERACTION COMPONENTS:			
BACKGROUND NO.: 23-83			
PHOTOGRAPH NO.: M444			
POTENTIAL INTERACTION NO.: V-23-131-3			
LOCATION WITHIN FIRE ZCNE: N.A.			
FIRE ZONE: 23			
BUILDING: AUXILIARY FEEDWATER BUILDING			
•			

BUILDING: AUXILIARY FEEDWATER BUILDING		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE: N.A.		
POTENTIAL INTERACTION NO.: V-23-131-4		
PHOTOGRAPH NO.: M446		
BACKGROUND NO.: 23-83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: CT-83 (VENT)	·	
SOURCE: 4" FLOOR DRAIN		
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET	·	,
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 4		
Source cannot directly Impact Target.		
X ACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 INTERACTION ENGINEER/DATE	W GRISWOLD VERI	9/24/82 FIED/DATE

INTERACTION ENGINEER / DATE ,	VERIF	IED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
		UNACCEPTABLE
X ACCEPTABLE		POTENTIALLY
EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 2" STATION AIR (THIRD ARRO	OW FROM TOP)	·
TARGET: CT-48-(3") (NOT SHOWN))	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-132-1		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-132-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-48 (3")

(NOT SHOWN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
	k .		

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-132-3

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-48 (3") (NOT SHOWN)

SOURCE: SPACE HEATER (SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-132-4

PHOTOGRAPH NO.:

M446

BACKGROUND NO.:

23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-48 (3")

(NOT SHOWN)

SOURCE: 4" FLOOR DRAIN (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER / DATE

9/13/82

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-133-1	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	-
TARGET: CT-82 (1" DR) (NOT SHOWN)	
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
Source is Screened from Target	
X ACCEPTABLE	POTENTIALLY —UNACCEPTABLE
·	

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W GRISWOLD

9/24/82

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE: N.A.
POTENTIAL INTERACTION NO.: V-23-133-2
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: CT-82 (1" DR) (NOT SHOWN)
SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:
SOURCE FALLS ON TARGET
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3
X ACCEPTABLE POTENTIALLY UNACCEPTABLE
UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-122-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

SOURCE: SPACE HEATER

(BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-133-4

PHOTOGRAPH NO.: M446

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

(NOT SHOWN)

SOURCE: 4" FLOOR DRAIN (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

POTENTIALLY X ACCEPTABLE -UNACCEPTABLE D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER/DATE

9/13/82

9/24/82

VERIFIED/DATE

W GRISWOLD

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-134-1	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
	-
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-31 (NOT SHOWN)	
SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 2	
X ACCEPTABLE	POTENTIALLY -UNACCEPTABLE

9/24/82

VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER / DATE

9/13/82

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

	*
BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-134-2	
PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	•
TARGET: CT-31 (NOT SHOWN)	
SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALL ——UNACCEPTAB

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W GRISWOLD

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	•
POTENTIAL INTERACTION NO.: V-23-134-3 PHOTOGRAPH NO.: M444	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS: TARGET: CT-31 (NOT SHOWN)	
SOURCE: SPACE HEATER (SECOND ARROW FROM BOTTOM)	
DESCRIPTION OF POSTULATED INTERACTION: SOURCE FALLS ON TARGET	
EVALUATION OF INTERACTION: EVALUATION NOTE NO: 4	
Source is not sufficiently Heavy to Damage Target.	
X ACCEPTABLE	POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9/13/82 W GRISWOLD	9/24/82

Ebasco Services Incorporated

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIF	IED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
XACCEPTABLE		POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 2		
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:	•)
•		
SOURCE: 4" FLOOR DRAIN (ARROW)		
TARGET: CT-31 (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		
PHOTOGRAPH NO.: M446		
POTENTIAL INTERACTION NO.: V-23-134-4		
LOCATION WITHIN FIRE ZONE: N.A.		· .
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
•			
FIRE ZONE:	23		
LOCATION WI	THIN FIRE	ZCNE: N.A	A.

POTENTIAL INTERACTION NO.: V-23-135-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV- 1189, SOV-1289 (HIDDEN)

SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9/13/82 W GRISWOLD 9/24/82

INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: AUXILIARY FEED WATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-135-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1189, SOV-1289 (HIDDEN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82 INTERACTION ENGINEER / DATE W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-135-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1189, SOV-1289

SOURCE: SPACE HEATER (SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source may Damage Operator

POTENTIALLY X ACCEPTABLE -UNACCEPTABLE

D MIRKOVIC 9/12/82 INTERACTION ENGINEER/DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERI	FIED/DATE
D MIRKOVIC 9/13/82	W GRISWOLD	9/24/82
ACCEPTABLE	x	POTENTIALLYUNACCEPTABLE
Source may Damage Operator		
EVALUATION NOTE NO: 5		
EVALUATION OF INTERACTION:		
	•	
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 4" FLOOR DRAIN (ARROW)		
SOURCE. A' FLOOR DRAIN (ARROW)		
TARGET: PCV-1189, SOV-1289 (NOT SHOW	N)	
IDENTIFICATION OF INTERACTION COMPONENTS:		
•		
BACKGROUND NO.: 23-83	,	
PHOTOGRAPH NO.: M446		
POTENTIAL INTERACTION NO.: V-23-135-4		
LOCATION WITHIN FIRE ZCNE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		
DUTE DIVING AND TARK DEPOSIT DE DATE DIVING		

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-136-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.:

23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1"DR)

(NOT SHOWN)

SOURCE: 2" STATION AIR (THIRD ARROW FROM TOP)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9/13/82

W GRISWOLD

9/24/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
FIRE ZONE:	23		
TOCATTON DI	ממדא מדטף	ZONE . N	

POTENTIAL INTERACTION NO.: V-23-136-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR) (NOT SHOWN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X	ACCEPTABLE		POTENTIALLY UNACCEPTABLE
D MIRKOVIC	9/13/82	W GRISWOLD	9/24/82
INTERACTION ENGI	NEER/DATE	VERTI	FIED/DATE

INTERACTION ENGINEER / DATE VERIF	IED/DATE
D MIRKOVIC 9/13/82 W GRISWOLD	· · · · · · · · · · · · · · · · · · ·
XACCEPTABLE	POTENTIALLY ———UNACCEPTABLE
Source is Screened from Target.	,
EVALUATION NOTE NO: 4	
EVALUATION OF INTERACTION:	
SOURCE FALLS ON TARGET	
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: SPACE HEATER (BOTTOM ARROW)	·
(1 bk)	
TARGET: CT-82 (1" DR) (NOT SHOWN)	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: 23-83	
PHOTOGRAPH NO.: M444	
POTENTIAL INTERACTION NO.: V-23-136-3	
LOCATION WITHIN FIRE ZONE: N.A.	
FIRE ZONE: 23	
BUILDING: AUXILIARY FEEDWATER BUILDING	

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System	No.	23

INTERACTION ENGINEER/DATE	W GRISWOLD VERIFI	9/24/82 ED/DATE
D MIRKOVIC 9/13/82	II ODIOUSES	0/2//02
ACCEPTABLE	-	POTENTIALLY UNACCEPTABLI
See _V-23-136-2 .		
EVALUATION NOTE NO: 3	-	
EVALUATION OF INTERACTION:		
SOURCE FALLS ON TARGET		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT FIXTURE		
TARGET: CT-82 (1" DR) (NOT SHOWN)		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: 23-83		·
PHOTOGRAPH NO.: M444		
POTENTIAL INTERACTION NO.: V-23-137-2		
LOCATION WITHIN FIRE ZONE: N.A.		
FIRE ZONE: 23		
BUILDING: AUXILIARY FEEDWATER BUILDING		•
		·

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
POTTDING:	MOVITIANI	PEEDWAIEK	DOTTDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-137-3

PHOTOGRAPH NO.: M444

BACKGROUND NO:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR) (NOT SHOWN)

SOURCE: SPACE HEATER (BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

ACCEPTABLE

POTENTIALLY

D MARKOVIC 9/13/82 INTERACTION ENGINEER / DATE

W GRISWOLD 9/24/82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-138-1

PHOTOGRAPH NO.: M443

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-25 (NOT SHOWN)

SOURCE: 2" STATION AIR (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

ACCEPTABLE

POTENTIALLY
--UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. Griswold 9-24-82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-138-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-25 (NOT SHOWN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

VERIFIED/DATE

DIT	TTT	ING	
D I I	1 1	1 101 -	•

AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-138-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-25 (NOT SHOWN)

SOURCE: SPACE HEATER

(SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC INTERACTION ENGINEER / DATE VERIFIED/DATE

DING
DIN

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-139-1

PHOTOGRAPH NO.: M443

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1187 SOV-1287 (NOT SHOWN)

SOURCE: 2" STATION AIR (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 2

X ACCEPTABLE ____

UNACCEPTABLE

POTENTIALLY

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD 9-24-82

VERIFIED/DATE

BUILDING:	AUXILIAKY	FEEDWATER	BUILDING
FIRE ZONE:	23		

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-139-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1187 SOV-1287

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD 9-24-82 VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
DOTEDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-139-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1187 SOV-1287

(NOT SHOWN)

SOURCE: SPACE HEATER

(SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9-13-82

INTERACTION ENGINEER / DATE

W. GRISWOLD

9-24-82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-140-1

PHOTOGRAPH NO.: M443

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

(NOT SHOWN)

SOURCE: 2" STATION AIR (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

____X __ACCEPTABLE ____

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

VERIFIED/DATE

POTENTIALLY

-UNACCEPTABLE

~-	361	_	415
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System No. 23	System	No.	23	
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BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-140-2

PHOTOGRAPH NO.:

M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

(NOT SHOWN)

SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD

BU	TI	TG.	NG	•

AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-140-3

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

(NOT SHOWN)

SOURCE: SPACE HEATER

(BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-141-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(THIRD ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD: 9-24-82 VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-141-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" DR)

(NOT SHOWN)

SOURCE: SPACE HEATER

(BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD 9-24-82

VERIFIED/DATE

BUILDING: AUCILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-142-1	
PHOTOGRAPH`NO.: M-444	
BACKGROUND NO.: 23-83	
•	·
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: CT-28 (NOT SHOWN)	<u>.</u>
SOURCE: LIGHT FIXTURE (THIRD ARROW	FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	1
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALLY
D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE	W. GRISWOLD 9-24-82 VERIFIED/DATE

Ebasco Services Incorporated

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-142-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-28

(NOT SHOWN)

SOURCE: SPACE HEATER

(BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER / DATE

W. GRISWOLD

9-24-82

VERIFIED/DATE

POTENTIALLY
-UNACCEPTABLE

9-24-82

VERIFIED/DATE

D MIRKOVIC

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER BUILDING
FIRE ZONE: 23
LOCATION WITHIN FIRE ZCNE: N.A.
POTENTIAL INTERACTION NO.: V-23-143-1
PHOTOGRAPH NO.: M444
BACKGROUND NO.: 23-83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 'PCV-1188 (NOT SHOWN - TOWARD BOTTOM LEFT)
SOURCE: LIGHT FIXTURE (THIRD ARROW FROM BOTTOM)
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 3

Ebasco Services Incorporated

W. GRISWOLD ...

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-143-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1188

(NOT SHOWN)

SOURCE:

SPACE HEATER

(BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
20222210.	110177777411	LUMDAVIUM	DOTEDTING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-144-1

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" D)

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(SECOND ARROW FROM BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: '3

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

VERIFIED/DATE

DUTLD	ING:	AUXILIARY	FEEDWATER	BUILDING
FIRE	ZONE:	23		

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-144-2

PHOTOGRAPH NO.: M444

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-82 (1" D) (NOT SHOWN)

SOURCE: SPACE HEATER

(BOTTOM ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

9-24-82

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

23 FIRE ZONE:

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-145-1

PHOTOGRAPH NO.: M447

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MOTOR DIVEN AUX FW PUMP #31 (NOT SHOWN)

(MIDDLE ARROW) SOURCE: LIGHT FIXTURE

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

D MIRKOVIC 9-13-82 9-24-82 W. GRISWOLD INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-145-2

PHOTOGRAPH NO.: M447

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MOTOR DRIVEN AUX FW PUMP #31

(NOT SHOWN)

SOURCE: SPACE HEATER

(LEFT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE W. GRISWOLD

9-24-82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: L.A.

POTENTIAL INTERACTION NO.: V-23-145-3

PHOTOGRAPH NO.: M447

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MOTOR DRIVEN AUX FW PUMP #31

SOURCE: 4" FLOOR DRAIN (RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

W. GRISWOLD 9-24-82

VERIFIED/DATE

System	No.	23

BUILDING: AUXILIARY FEEDWATER BUILDING FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-146-1

PHOTOGRAPH NO.: M452

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-71 (3/4" DR) (NOT SHOWN)

SOURCE: LIGHT FIXTURE (RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER/DATE

W. GRISWOLD 9-24-82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: 'N.A.

POTENTIAL INTERACTION NO.: V-23-147-1

PHOTOGRAPH NO.: M441

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TURBINE DRIVEN AUX FW PUMP #32 TARGET:

(LOWER LEFT)

SOURCE: LIGHT FIXTURE (ARROW LEFT UPPER CORNER)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE W. GRISWOLD

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-147-2

PHOTOGRAPH NO.: M441

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TURBINE DRIVEN AUX FW PUMP #32

(LOWER LEFT)

SOURCE: SPACE HEATER

(TOP ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source cannot Impact Target due to Missle Shield.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER / DATE

9-24-82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

23 FIRE ZONE:

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-148-1

PHOTOGRAPH NO.: M452

BACKGROUND NO.:

23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

MOTOR DRIVEN AUX FW PUMP #33 (BOTTOM CENTER)

SOURCE:

LIGHT FIXTURE

(RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9-13-82

INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-149-1

PHOTOGRAPH NO.: M452

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-71 (3/4" D) (NOT SHOWN)

SOURCE: LIGHT FIXTURE

(RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

9-24-82

VERIFIED/DATE

System	No.	23	

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-151-1

PHOTOGRAPH NO.: M447

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-85

(NOT SHOWN) (1½")

SOURCE: 4" FLOOR DRAIN

(RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source is Screened from Target.

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9-13-82

9-24-82 W. GRISWOLD

INTERACTION ENGINEER / DATE

VERIFIED/DATE

System	No.	23
, · · ·	1.0	

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-151-2

PHOTOGRAPH NO.: M447

23-83 BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-85 (NOT SHOWN)

LIGHT FIXTURE

(CENTER ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-151-3

PHOTOGRAPH NO.: M447

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

CT-85

(NOT SHOWN)

SPACE HEATER

(LEFT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source may Damage Target.

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9-13-82

INTERACTION ENGINEER / DATE

W. GRISWOLD

9-24-82

VERIFIED/DATE

BUILDING:	AUXILIARY	FEEDWATER	SYSTEM
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-152-2

PHOTOGRAPH NO.: M452

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: CT-85 (NOT VISIBLE)

SOURCE: LIGHT FIXTURE

(RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY ACCEPTABLE UNACCEPTABLE D MIRKOVIC 9-13-82 9-29-82 W. GRISWOLD INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-153-2

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MS-114 (3/4" DRN) (NOT SHOWN)

SOURCE: LIGHT FIXTURE (RIGHT ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

System	No.	23

BUILDING: AUXILIIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-154-2

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MS-54

(IN INSULATED LINE BELOW LIGHT TO LEFT)

SOURCE:

LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

RACTION ENGINEER / DATE VERIFIED / DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-155-2

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MS-33 (3/4" DRN) (NOT SHOWN)

SOURCE: LIGHT FIXTURE (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: .3

D MIRKOVIC 9-13-82

POTENTIALLY
UNACCEPTABLE

W GRISHOLD 9-24-82

INTERACTION ENGINEER/DATE

W. GRISWOLD 9-24-82
VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-156-2

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1139

(HIDDEN BY SUPPORT STEEL)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE W. GRISWOLD 9-24-82 VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-157-2

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: - MS-44 (1")

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

W. GRISWOLD 9-24-82

VERIFIED/DATE

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-158-2

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

MS-52 (HIDDEN BY LIGHT)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE W. GRISWOLD

9-24-82

9-24-82

VERIFIED/DATE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER / DATE

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

BUILDING: AUXILIARY FEEDWATER SYSTEM	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-159-2	. •
PHOTOGRAPH NO.: M455	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: MS-51 (3/4") (CENTER - BEHIND GREEN LINE)	•
SOURCE: LIGHT FIXTURE (ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 3	
X ACCEPTABLE	POTENTIALLY UNACCEPTABLE

Ebasco Services Incorporated

W. GRISWOLD

BUILDING:	AUXILIARY	FEEDWATER	SYSTEM
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-23-160-1-

M455 PHOTOGRAPH NO.:

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

MS-33 (3/4" DRN)

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-161-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MS-93

(HIDDEN BY SUPPORT STEEL)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE W. GRISWOLD

9-24-82

BUILDING: AUXILIARY FEEDWATE	EK SISTEM	
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-162-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MST-65

(HIDDEN BY SUPPORT STEEL)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

D MIRKOVIC 9-13-82 . INTERACTION ENGINEER / DATE

9-24-82 VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-163-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

MS-93

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D_MIRKOVIC INTERACTION ENGINEER / DATE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE: N.A.

POTENTIAL INTERACTION NO.: V-23-164-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.:

23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

MST-64

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9-13-82

INTERACTION ENGINEER / DATE

9-24-82 W. GRISWOLD

VERIFIED/DATE

BUILDING: AUXILTARY FEEDWATER SYS

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-165-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: M-110

(NOT SHOWN)

SOURCE: LIGHT FIXTURE (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

W. GRISWOLD

BUILDING:	AUXILIARY	FEEDWATER	SYSTEM
FIRE ZONE:	23		

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-166-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ST-3

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

XACCEPTABLE	POTENTIALLY UNACCEPTABLE
D MIRKOVIC 9-13-82	W. GRISWOLD 9-24-82
INTERACTION ENGINEER / DATE	VERIFIED/DATE .

		23	
System	No.		

Sheet	397 _{of}	415

BUILDING: AUXILIARY FEEDWATER SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-167-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MS-111 (1/4") (NOT SHOWN)

SOURCE:

LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

ACCEPTABLE D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE

POTENTIALLY UNACCEPTABLE

W. GRISWOLD 9-24-82

VERIFIED/DATE

System	No.	23
oystem:	140.	

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BUILDING: AUX	XILIARY	FEEDWATER	SYSTEM

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-168-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MST-69

(NOT SHOWN)

SOURCE: LIGHT FIXTURE (ARROW)

DESCRIPTION OF POSTULATED INTERACTION: Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

D MIRKOVIC

INTERACTION ENGINEER/DATE

9-13-82

9-24-82

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: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 23	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-169-1	
PHOTOGRAPH NO.: M455	
BACKGROUND NO.: 23-83	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: ½" PI RT. VLV. (NOT SHOWN)	
SOURCE: LIGHT FIXTURE (ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	•
EVALUATION NOTE NO: 4	
Source is Screened from Target.	
X ACCEPTABLE	POTENTIALLY

W. GRISWOLD

BUILDING:	AUXILIARI	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-170-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MS-112

(NOT SHOWN)

SOURCE: LIGHT FIXTURE (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source is Screened from Target.

X ACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

POTENTIALLY

-UNACCEPTABLE

VERIFIED/DATE

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-171-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MST-113

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Source is Screened from Target.

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC

9-13-82

INTERACTION ENGINEER/DATE

W. GRISWOLD 9-24-82

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-172-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ST-2

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-173-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: MST-68

(NOT SHOWN)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC

9-13-82

W. GRISWOLD

9-24-82

INTERACTION ENGINEER/DATE

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-174-1

PHOTOGRAPH NO.: M455

BACKGROUND NO.: 23-83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AUXILIARY FEEDWATER TURBINE

(OUT OF PHOTO TO LEFT)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

INTENTIONALLY LEFT BLANK.....

BUILDING: AUXILTARY FEEDWATER BUILDING

FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-176-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-64 (3/4") (LOWER CENTER)

SOURCE: LIGHT FIXTURE (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source is Screened from Target.

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

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Sheet	of	

System No. 23

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

BUILDING:	AUXILIARY	FEEDWATER	BUILDING
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FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-177-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-64 (3/4")

(LOWER CENTER)

SOURCE: LIGHT FIXTURE (ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

• See V-23-176-1

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER / DATE

9-24-82

BUILDING: AUXILTARY FEEDWATER BUILDING

FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-180-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

BFD-64 (3/4")

(RIGHT CENTER)

SOURCE:

LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

See V-23-176-1

Х

ACCEPTABLE

POTENTIALLY
-UNACCEPTABLE

D MIRKOVIC 9-13-82
INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

BUILDING: AUXILIARY FEEDWATER BUILDING

52A FIRE ZONE:

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-181-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-64 (3/4")

(RIGHT CENTER)

SOURCE:

LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

See V-23-176-1

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

S MIRKOVIC 9-13-82

INTERACTION ENGINEER / DATE

9-24-82

BUILDING: AUXILIARY FEEDWATER BUILDING	
FIRE ZONE: 52A	
LOCATION WITHIN FIRE ZONE: N.A.	
POTENTIAL INTERACTION NO.: V-23-184-1	
PHOTOGRAPH NO.: M433	
BACKGROUND NO.: 23-84	
IDENTIFICATION OF INTERACTION COMPONENTS:	
TARGET: BFD-64 (3/4") (VERTICAL LINE SECOND FROM RIGHT)	
SOURCE: LIGHT FIXTURE (ARROW)	
DESCRIPTION OF POSTULATED INTERACTION:	
Source falls on target	
EVALUATION OF INTERACTION:	
EVALUATION NOTE NO: 4	
See V-23-176-1	
X ACCEPTABLE	POTENTIALLY UNACCEPTABLI
D_MIRKOVIC 9-13-82 W. CRISWOLD 9-24 INTERACTION ENGINEER/DATE VERIFIED/D	

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BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-185-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-64 (3/4")

(VERTICAL LINE SECOND FROM RIGHT)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

See V-23-176-1

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

D MIRKOVIC 9-13-82 INTERACTION ENGINEER/DATE W. GRISWOLD

9-24-82

BUILDING:	AUXILIARY	FEEDWATER	BUILDING

FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-188-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-64 (3/4")

(VERTICAL LINE SECOND FROM LEFT)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

See V-23-176-1

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

S MIRKOVIC

9-13-82

INTERACTION ENGINEER/DATE

W. GRISWOLD

9-24-82

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-189-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-85

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: BFD-64 (3/4")

(VERTICAL LINE SECOND FROM LEFT)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

See V-23-176-1

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER/DATE

9-24-82

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

BUILDING: AUXILIARY FEEDWATER BUILDING

FIRE ZONE: 52A

LOCATION WITHIN FIRE ZONE: N.A.

POTENTIAL INTERACTION NO.: V-23-192-1

PHOTOGRAPH NO.: M433

BACKGROUND NO.: 23-84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PCV-1310B (OUT OF PHOTO TO LEFT)

SOURCE: LIGHT FIXTURE

(ARROW)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

D MIRKOVIC 9-13-82

INTERACTION ENGINEER / DATE

W. GRISWOLD

9-24-82

VERIFIED/DATE

System No.	23
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D MIRKOVIC

9-13-82

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: YARD		
FIRE ZONE:		•
LOCATION WITHIN FIRE ZONE:	·	
POTENTIAL INTERACTION NO.: V-23-	198-1	
PHOTOGRAPH NO.: M454		·
BACKGROUND NO.: 23-83		
	•	
IDENTIFICATION OF INTERACTION COM	PONENTS:	•
TARGET: CD-109	(CHECK VALVE CENTER RIGHT	·)
SOURCE: TURBINE BLDG.		
DESCRIPTION OF POSTULATED INTERAC	TION:	
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 5		· · · · · · · · · · · · · · · · · · ·
The SEISMIC Design of t	this Area must be further	evaluated.
ACCEPTABLE	X	POTENTIALLY

W. GRISWOLD

9-24-82

Postulated Failure Modes

MECHANICAL FAILURES

- M 1 Ruptured Pipe or Tube
- ${\rm M}$ 3 Loss of Function (Pump, Fan, Blowers etc.)
- M 4 Loss of Valve Motive Power
- M 5 Failure of or damage to Valve Actuating Mechanism
- M 6 Other (Explain)

ELECTRICAL FAILURES

- E 1 Open Circuit
- E 2 Short Circuit
- E 3 Other (Explain)

INSTRUMENTATION & CONTROL FAILURES

- C 1 Fail High
- C 2 Fail Low
- C 3 Fail Open
- C 4 Fail Closed
- C 5 Loss of Motive Power
- C 6 Other (Explain)

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

SYSTEM NO 23	-
SYSTEM NAME <u>Auxiliary Feedwa</u>	ter System
FMEA CATEGORY	NON-CONNECTED
	INTERCONNECTED X
N.	
PREPARED BY/DATE	
Muzza 7/31/83	Wariswold 6.1.83
CHECKED BY/DATE	VERIFIED BY/DATE

Ebasco Services Incorporated

VERIFIED BY/DATE

FMEA NUMBER: 23-M-1A

Interaction Number(s): 23-M-2

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

CT-49 An isolation valve on a line connecting city water with the Aux feed pumps suction. Valve and piping are Category I. Valve is manually controlled.

Postulated Failure Mode(s) and Evaluation:

M-1-(A) Although CT-49 is manually operated, a seismic induced rupture of the non-seismic portion of city water will not affect Auxiliary Feedwater Pump suction. Isolation of the rupture from the suction is maintained by check Valves CT-25, CT-28 and CT-31. Isolation can also be provided by diaphragm operated Valves PCV 1187, 1188 and 1189.

X				/	1	()	2	()	3	()	4	()
Acceptable	`	Potentially	Unacceptab:	le/	Sa	fet	у	Fu	nc	ti	ion	1 <i>A</i>	\f f	ec	:te	d

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83 CHECKED/DATE

FMEA NUMBER: 23-M-2A

Interaction Number(s): 23-M-2

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

8"-CT-1074 Category I line which brings city water to auxiliary feed pumps suction as a backup to the condensate storage tank supply. Subject line has a 1" takeoff to an eye wash station.

Postulated Failure Mode(s) and Evaluation:

- M-1-(A) A seismic event may result in a pipe rupture at the eyewash station. The Aux Feed Pump suction will be isolated by check valves CT-25, 28, and 31. Isolation can be further ensured by diaphragm operated valves PCV 1187, 1188, 1189.
- M-2-(A) A crimped line will be of no consequence on the system.

X	/1()2()3()4()
Acceptable	Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83 CHECKED/DATE

FMEA NUMBER: 23-M-3A

Interaction Number(s): 23-M-9

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

2"-1032-City water line to nuclear services. Line connects to the city water backup line to Auxiliary Feed Pumps suction. 2"-1032 is a Category I line.

Postulated Failure Mode(s) and Evaluation:

- M-1-(A) Line 1032 leads into non-seismic Category III line #35. There is no isolation valve between the Category I and III lines. A rupture in the non-seismic piping will not interrupt the Auxiliary Feedwater Pumps suction. The suction lines are isolated by check valves CT-25, 28, and 31. Isolation can also be accomplished by diaphragm operated valves PCV 1187, 1188 and 1189 which are also on the suction lines.
- M-2-(A) A crimped or collapsed line will not affect the safe shutdown of the plant.

X	/ 1 () 2 () 3 () 4 ()
Acceptable	Potentially Unacceptable/Safety Function Affected
L Cerra 5/18/83	T P Ruggiero 5/31/83
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 5 NUCLEAR POWER PLANT SYSTEM INTERACTION STUDY FMEA PREPARATION

SYSTEM NO	23	· · · · · · · · · · · · · · · · · · ·			
SYSTEM NAME	Auxiliary	Feedwater	System		
				·	
	·		,		
FMEA CATEGORY				NON-CONNECTED X	·
				INTERCONNECTED	
	•		٠.		
	•				
Din (Musor PREPARED BY/DA	5/26/ATE	3 7			
Muygiew 5	-/26/83	· -	WAG	riswold 5.27.83 VERIFIED BY/DATE	

Ebasco. Services Incorporated

FMEA NUMBER: 23-M-1

Interaction Number(s): L-23-63-1

Fire Zone: N/A (Yard)

Target Component(s)

Number, Description & Function:

6"-#1080: Return line to Condensate Storage Tank.

Postulated Failure Mode(s) and Evaluation:

M-1: A pipe break may siphon off contents of Condensate Storage Tank.

M-2: No effect on safety function.

Acceptable X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

D Mirkovic 5/26/83

EVALUATING ENGINEER/DATE

T P Ruggiero 5/26/83

CHECKED/DATE

FMEA NUMBER: 23-M-2

Interaction Number(s): V-23-198-1

Fire Zone: N/A (Yard)

Target Component(s)
Number, Description & Function:

Valve CD-109: Check valve on line 6"-1080, a return line to Cond. Storage Tank.

Postulated Failure Mode(s) and Evaluation:

M-6: Check valve has no external actuating mechanism that can be damaged.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

D Mirkovic 5/26/83 T P Ruggiero 5/26/83 EVALUATING ENGINEER/DATE CHECKED/DATE

AUXILIARY FEEDWATER SYSTEM I & C

POTENTIALLY UNACCE INTERACTION NUM		FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
1-23 - 4-1	(4)	NR	NR	NR
I-23 - 5-8	(4)	NR	NR	NR
1-23 - 6-1	(4)	NR	NR	NR
I-23 - 7-2	(4)	NR	NR	NR
1-23 - 7-3	(4)	NR	NR .	NR
I-23 - 8-2	(4)	NR	NR	NR
1-23 - 8-3	(4)	NR	NR	NR
1-23 - 9-1	(4)	NR	NR	NR
I-23 - 9-4	(4)	NR	NR	NR
I-23 - 9-5	(4)	NR	NR	NR
I-23 - 9-6	(4)	NR	NR	NR
1-23 - 10-4	(4)	NR	NR .	NR
I-23 - 10-5	(4)	NR	NR	NR
I-23 - 10-6	(4)	NR	NR	NR
I-23 - 11-1	(4)	NR	NR	NR
I-23 - 12-7	(4)	NR	NR	NR
I-23 - 13-7	(4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

AUXILIARY FEEDWATER SYSTEM I & C

POTENTIALLY UNACC		FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-23 - 15-2		23-I-1-P	23-001-P	5209-23-046-A
I-23 - 15-3	(4)	NR	NR	NR
I-23 - 15-4	(4)	NR	NR	NR
I-23 - 15-5	(4)	NR	NR	NR
I-23 - 15-6	(4)	NR	NR	NR
I-23 - 16-2		23-I-2-P	23-001-P	5209-23-046-A
I-23 - 16-3	(4)	NR	NR	NR
I-23 - 16-4	(4)	NR .	NR	. NR
I-23 - 16-5	(4)	NR	NR	NR
I-23 - 16-6	(4)	NR .	NR	NR
I-23 - 17-2		23-I-3-P	23-001-P	5209-23-046-A
I-23 17-3	(4)	NR	NR	NR
I-23 - 17-4	(4)	NR	NR	NR
I-23 - 17-5	(4)	NR	NR	NR
I-2317-6	(4)	NR	NR	NR
1-23 - 18-1	(4)	NR	NR	NR
I-23 - 19-1	(4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.4) Disposed of by repair in AFW pump building.

Unacceptable by all 3 types of evaluation.

AUXILIARY FEEDWATER SYSTEM I & C

POTENTIALLY UNACCE	-	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-23 - 20-2		23-I-4-P	23-001-P	5209-23-046-A
I-23 - 21-7	(4)	NR	NR	NR
I-23 - 22-7	(4)	NR	NR	NR
I-23 - 24-2		23-I-5-P	23-001-P	5209-23-046-A
I-23 - 24-7	(4)	NR	NR	NR
I-23 - 24-8	(4)	NR	NR	NR
I-23 - 25-2		23-I-6-P	23-001-P	5209-23-046-A
I-23 - 25-7	(4)	NR	NR	NR
I-23 - 25-8	(4)	NR	NR	NR
I-23 - 26-2	,	23-I-7-P	23-001-P	5209-23-046-A
I-23 - 26-7	(4)	NR	NR	NR
I-23 - 26-8	(4)	NR	NR	NR
I-23 - 27-7	(4)	NR	NR	NR
I-23 - 28-1	(4)	NR	NR	NR
I-23 - 29-2	(4)	NR	NR ·	NR
I-23 - 29-3	(4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

AUXILIARY FEEDWATER SYSTEM I & C

POTENTIALLY UNACCE		FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-23 - 29-4	(4)	NR	NR	NR
I-23 - 29-5		23-I-8-P	23-001-P	5209-23-046-A
I-23 - 30-4	(4)	NR	NR .	NR
I-23 - 30-6	(4)	NR	NR	NR
I-23 - 30-7	(4)	NR	NR	NR
I-23 - 30-8	(4)	NR	NR	NR
1-23 - 30-9	(4)	NR	NR	NR
I-23 - 30-10	(4)	, NR	NR	NR
I-23 - 31-8	(4)	NR	NR	NR
* I-23 - 31-11		23-I-9-P	23-002-P	NA
I-23 - 32-8	(4)	NR	. NR	NR
* I-23 - 32-11		23-I-10-P	23-002-P	NA
I-23 - 33-1	(4)	NR	NR	NR
I-23 - 33-2	(4)	NR	NR	NR
I-23 - 34-1	(4)	NR	NR	NR
1-23 - 34-2	(4)	NR	NR	NR
I-23 - 35-3	(4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

AUXILIARY FEEDWATER SYSTEM I & C

POTENTIALLY UNACCE INTERACTION NUM		FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
I-23 - 35-4	(4)	NR	NR	NR
1-23 - 36-3	(4)	NR	NR	NR
1-23 - 36-4	(4)	NR	NR	NR
I-23 - 37-5	(4)	NR	NR	NR
I-23 - 38-5	(4)	NR	NR	NR.
1-23 - 39-6	(4)	NR	NR	NR
I-23 - 40-6	(4)	NR	NR	NR
I-23 - 40-7	(4)	NR	NR	NR
I-23 - 40-8	(4)	NR	NR	NR
I-23 - 41-1	(4)	NR	NR	NR
I-23 - 42-1	(4)	NR	NR	NR
1-23 - 43-1	(4)	ŅR	NR	NR
I-23 - 44-1	(4)	NR	NR	NR
1-23 - 45-1	(4)	NR	NR	, NR
I-23 - 46-1	(4)	NR	NR	NR
1-23 - 47-1	(4)	NR	NR	NR
I-23 - 52-1	(4)	NR	NR .	NR ·

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

AUXILIARY FEEDWATER SYSTEM I & C

POTENTIALLY UNACCED INTERACTION NUMBER		FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
1-23 - 53-1	(4)	NR	NR	NR
1-23 - 54-1	(4)	NR	NR	NR
1-23 - 55-1	(4)	NR	NR	NR
1-23 - 56-1	(4)	NR	NR	NR
I-23 - 57-1	(4)	NR	NR	NR
I-23 - 58-1	(4)	NR	NR	NR
I-23 - 59-1	(4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

Disposed of by repair in AFW pump building.Unacceptable by all 3 types of evaluation.

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

SYSTEM	NO _	23	·		•	
SYSTEM	NAME _	AUXILIARY	FEEDWATER			
	•				 	
MATRIX	CATEGOR	Y -		NON-CONNECTED		
				INTERCONNECTED	X	

Mocratous 9/23/22
PREPARED BY/DATE

APPROVED BY/DATE

SHEET	1	OF	4	

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

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	
LC 1128	V-CT990	S	
PT 1205	V-CT59 118V AC Bus 34	S S	
PI 1205	V-CT-59	S	
PT 1264	V-CT-59 118V AC Bus 31	S S	,
PI	V-CT-59	S	
FC 1135S	V-CT-84 V-CT-84 SOV-1321	S S S	
PT 1263	V-CT-59 118V AC Bus 34	S S	
FC 1136S	V-CT-84 V-CT-84 SOV-1323	S S S	
PT 1265	V-CT-59 118V AC Bus 32	S S	
PI 1260	V-BFD-61	S	
PT 1260	V-BFD-61 118V AC Bus 34	S S	
PT 406A	V-BFD-66-1 118V AC Bus 33	S S	

M Soci	atous/9-	15-82
PREPARED	BY/DATE	

HEET 2 OF 4		, 2	OF	4	
-------------	--	-----	----	---	--

SYSTEM	NO.	I-23
PIDIEM	NO.	<u> 1-23</u>

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

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	
FT 1200	V-BFD-64 V-BFD-64 118V AC Bus 32	S S S	
FT 1201	V-BFD-64 V-BFD-64 118V AC Bus 31	S S S	
PT 1262	V-BFD-61-4 118V AC Bus 32	S S	
PI 1262	V-BFD-61-5	S	
PT 406B	V-BFD-66 118V AC Bus 33	S S	
FT 1203	V-BFD-64 V-BFD-64 118V AC Bus 33	S S S	
FT 1202	V-BFD-64 V-BFD-64 118V AC Bus 34	S S S	(
PI 1261	V-BFD-61	S	
P.I	V-BFD-61	S	
PT 1261	V-BFD-61 118V AC Bus 31	s s	
FI 1131	Turbine Driven Aux FW Pump #32 L - 3/4"- CD 1031 L - 3/4" - CD 1031 L - 3/4" - CD 1031	S S S S	

M Socratous/9-15-82
PREPARED BY/DATE

SHEET	3	OF	4	

SYSTEM NO. I-23

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

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
FI 1132	L - 3/4"- CD-1031	S	
FI 1133	L-3/4"CD-1031	S	
PC-1213	V-BFD-75 Instrument Air	S S	:
TI-1216	L-12"-CT-1070	S	
LT 1128 B	V-CT990 118V AC Bus 32	S S	
LIC 1102S	V-CT990	S	· · · · · ·
LC 1103	V-CT 58	S	
LI 1128A	V-CT 58	S	
LIC 1104S	V-CT 990	S	·
TI 1324	2" - Line #1031	S	
PT 1126	V-MS-51 118V AC Bus 31	S S	
PC 1176S	V-MS-44	S	
PM 405A	FCV 405A	S	
PM 405B	FCV 405B	S	-
PM 405C	FCV 405C	S	
PM 405D	FCV 405D	S	

M Socratous/9-15-82
PREPARED BY/DATE

SYSTEM NO.	I-23	SHEET 4	OF _	4	

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

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
PM 406A	FCV 406A	S _	
PM 406B	FCV, 406B	S	
PM 406C	FCV 406C	S	
PM 406D	FCV 406D	.S	

M Socratous/9-15-82
PREPARED BY/DATE

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

Interconnected System Interaction Evaluation Notes

- 1. Rupture of non-seismic line
- 2. Leakage from connecting line
- 3. Valve required to be closed fails open
- 4. Valve required to be open fails closed
- 5. Loss of flow or insufficient flow
- 6. Loss of function due to loss of motive power
- 7. Electrical fault

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

SYSTEM NO.	1-23	_	,		
SYSTEM NAME	AUXILIARY FE	EDWATER			
					
EVALUATION C	ATEGORY		NON-CONNECTED	. <u></u>	
			INTERCONNECTED	X	
				• '	
No	evaluations	required			
R Davene	9/23/82	. AA.	Vanicum/d 9	·79·V1	

Ebasco Services Incorporated

INTERACTION ENGINEER/DATE

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

SYSTEM NO	23			
SYSTEM NAME	AUXILIARY FEEDWATER			
		,	and the state of t	
MATRIX CATEGORY		NON-CONNECTED	X	
		INTERCONNECTED		 -

Monten 9/20/82

Daverio 9/20/35APPROVED BY/DATE

	A
	A
-	6
	Ε

	SOURCES															
				1	2	3	4	5.	6	7	8					
		I-23	NO INTERACTION	LIGHT	LIGHT	SPACE HEATER	SPACE HEATER	LIGHT	4" DRAIN LINE	LIGHT	LIGHT					
		PUMP NO. 32:														
	1	FI 1132	Х													
	2	FI 1133	X	·												
	⁻ 3	FI 1131	Х													
	4	TI 1324	,	1214												
	. 5	AFW PUMP 32 TURB. GAUGE BOARD									1232					
(0	6	PI 1261		1214							_					
1	7	PC 1213			1215	[21]										
TARGETS	8	PC 1213 SENSING LINE			215	1215										
4	9	PT 1261 SENSING LINE		(214	,		(21)	1216	1216							
	10	PT 1264 SENSING LINE			·		216	1216	216							
	11	PI-GAGE "C"		1214						·						
		PUMP NO. 31:														
	12	PT 406A								1217					·	
	13	PT 406A SENSING LINE								£217						
		DING: AUXILIARY BO	ILER	FEED	PUM	P, EI	18'	-6'								
		ZONE:23 ATION:									· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	_
1	MITI	HIN FIRE ZONE			Deve		1 }~~ 1 1 4							ER SY		\dashv
		SERVICES INCORP			POW			PO!				w YC)KK	5209 I	-23	٥
DATE		_CH P M David						S INT				UDY		SH 1	OF	7

4	

:					SOURCES													
		•					1	2	3	4	5	6	7	8				
•			I-23			NO INTERACTION	гіснт	2" STATION AIR LINE	4" DRAIN LINE	SPACE HEATER	SPACE HEATER	LIGHT	LIGHT	SPACE HEATER				
		14	FE 1121					1218	1218	I219	1219	I219						
		15	FC 1135 S	S .				1218	1218	(1219	1219	1219						
		16	FC 1135 S SENSING I					1218	1218	[121]	1219	1219						
		17	FC 1135 S SENSING I					1218	1218	1219	[219	1219						
		18	PI 1260				1217					g						
		19	PT 1260 SENSING I	INE			(21)	٠.		N.						· ·		
	S	20	PT 1263 SENSING I	INE				1220		,								
•	TARGETS						,							,				
~7~	\RG		PUMP NO.	33:				,										
J = 3	1,1	21	PT 406B									`	1221					
		22	PT 406B SENSING I	INE	*			-					1221					
		23	FE 1123					1223					1223	1223				
- -		24	FC 1136 S					1223	,				1223	1223				
, <u>‡</u>		25	FC 1136 S SENSING L	INE				1223					£223	1223				
INCHES THAMMAN CH.		26	FC 1136 S SENSING L					1223					£223	1223				
		27	PI:1262										[22]					
	BUILDING: AUXILIARY BOILER FEED PUMP, EL. 18'-6" FIRE ZONE: 23 LOCATION: AUXILIARY FEEDWATER SYST									STEM								
			SERVICE	S INC	ORPO			POW							W YO	RK :		
	DAT	Ε	DRMS CH	R M I	PPRO aver				SYS	TEM	PO S INT	TERA	CTIO	N ST	UDY	9		23 OF 7
•	SCA	LE N	ONE		INTERACTION MATRIX													

		SOURCES														
				1												ı
		I-23	NO INTERACTION	LIGHT												
		OFF 4" #1003:					·									
	48	FE 1200		1233												1
		OFF 4" #1004:														
	49	FE 1201		1233												
		OFF 4" #1002:														
	50	FE 1202		1233			,									
(0		OFF 4" #1001:														
ETS	51	FE 1203		1233												
TARGETS	52	FT 1200 L.P. SENSING LINE		£233	·											
T	53	FT 1200 H.P. SENSING LINE		233												
	54	FT 1201 L.P. SENSING LINE		1233												
	55	FT 1201 H.P. SENSING LINE		1233												
	56	FT 1202 L.P. SENSING LINE		1233												
	57	FT 1202 H .P. SENSING LINE		[233												
	58	FT 1203 L.P. SENSING LINE		(233							<u>.</u>					
	59	FT 1203 H.P. SENSING LINE		1233			<u> </u>			<u></u>	<u> </u>					
		DING: <u>AUXILIARY</u> ZONE: <u>52A</u>	BOIL	ER FE	ED PU	JMP,	EL.	32' -	6"							
- 1	LOC	ATION :									A D37	PPPN	IA TOTAL	CVC	TEM	_
	WITHIN FIRE ZONE EBASCO SERVICES INCORPORATED POWER AUTHORITY STATE OF NEW YORK 5209.003															
		DR. MS APPR			041	IN	DIAN	PO	ΙŃΤ	No. 3	3		-	I-	23	l
	E <u>N</u>	ONE R M Dav	erio					S INT				אַטט		>⊓ 6	OF	7

INCHES THIMMAN --

SOURCES NO INTERACTION I-23 CONDENSATE STORAGE TANK: LT 1128B 60 Х LT 1128B 61 X SENSING LINE X LIC 1104 S LIC 1104 S X 63 SENSING LINE 64 LC 1128 X LC 1128 X SENSING LINE LIC 1102 S 66 X LIC 1102 S 67 X SENSING LINE 68 X LC 1103 S LC 1103 S 69 X SENSING LINE 70 LI 1128-A X LI 1128-A 71 Х SENSING LINE 72 TI 1216 X BUILDING: CONDENSATE STORAGE TANK FIRE ZONE: CST LOCATION :_ WITHIN FIRE ZONE AUXILIARY FEEDWATER SYSTEM POWER AUTHORITY STATE OF NEW YORK 5209.003 EBASCO SERVICES INCORPORATED INDIAN POINT No. 3 1 - 23**APPROVED** DIV. I&C DR. MS SH 7 OF 7 SYSTEMS INTERACTION STUDY R M Daverio INTERACTION MATRIX SCALE NONE

1

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.
- 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.
- 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.	23	-		
SYSTEM NAME	AUXILIARY	FEEDWATER		
EVALUATION C	CATEGORY	NON-CONNECTED	Х	
		INTERCONNECTED		

R Davena 9/17/82 INTERACTION ENGINEER/DATE WGriswold 923-82 VERIFIED/DATE

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

INTERACTION ENGINEER / DATE	VERIFIED/DATE				
R Daverio 9/17/82	W Griswold	9/23/82			
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE			
EVALUATION NOTE NO: 7					
EVALUATION OF INTERACTION:		•			
Source falls on Target					
DESCRIPTION OF POSTULATED INTERACTION:					
•					
SOURCE: Light					
TARGET: TI 1324					
· IDENTIFICATION OF INTERACTION COMPONENTS:					
BACKGROUND NO.: Sheet 83	٠				
PHOTOGRAPH NO.: I214					
POTENTIAL INTERACTION NO.: I-23 - 4-1					
LOCATION WITHIN FIRE ZONE:					
FIRE ZONE: 23	·				
BUILDING: Auxiliary Boiler Feed Pump Bldg.					

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

BUILDING: Auxiliary Boiler Feed Pump Bldg.			
FIRE ZONE: 23			
LOCATION WITHIN FIRE ZONE:			
POTENTIAL INTERACTION NO.: I-23 - 5-8			
PHOTOGRAPH NO.: 1232			
BACKGROUND NO.: Sheet 83			
1	·		
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: AFW Pump 32 Turb. Gauge Board			
SOURCE: Lights	,		
DESCRIPTION OF POSTULATED INTERACTION:			
Source falls on Target			
EVALUATION OF INTERACTION:			,
EVALUATION NOTE NO: 7			•
,	·X		POTENTIALLY
ACCEPTABLE		·	-UNACCEPTABLE
P. Dovorio 0/17/02	II <i>Ood oo</i> 11	0/22	/on
R Daverio 9/17/82 INTERACTION ENGINEER/DATE	W Griswold V	9/23/ ERIFIED/DA	

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

INTERACTION ENGINEER/DATE		IFIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	XX	POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on Target	·	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
TARGET: PI 1261		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NC.: I214		
POTENTIAL INTERACTION NO.: I-23 - 6-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

BUILDING: Auxiliary Boiler Feed Pump Bldg.		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-23 - 7-2		
PHOTOGRAPH NO.: 1215		
BACKGROUND NO.: Sheet 83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PC 1213	,	
·		
SOURCE: Light		
DESCRIPTION OF POSTULATED INTERACTION:		1
Source falls on target		
EVALUATION OF INTERACTION:		
	•	
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLY
		UNACCEPTABLI
R Daverio 9/17/82	W <u>Griswold</u>	9/23/82
INTERACTION ENGINEER / DATE		IFIED/DATE

	Ÿ	
BUILDING: Auxiliary Boiler Feed Pump Bld	g .	-
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-23 - 7-3		
PHOTOGRAPH NO.: 1215		
BACKGROUND NO.: Sheet 83		·
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PC 1213		
SOURCE: Space Heater		•
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
bource fails on target		
EVALUATION OF INTERACTION:	•	
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R Daverio 9/17/82	W Griswold	0.700.700
INTERACTION ENGINEER/DATE		9/23/82 TED/DATE

INTERACTION ENGINEER / DATE

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

BUILDING: Auxiliary Boiler Feed Pump Bldg.		
FIRE ZONE: 23	,	•
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-23 - 8-2		
PHOTOGRAPH NO.: I215		
BACKGROUND NO.: Sheet 83		
		•
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PC 1213 Sensing Line		•
ı		
SOURCE: Light		
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target		
EVALUATION OF INTERACTION:		·
EVALUATION NOTE NO: 7		
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R Daverio 9/17/82	W Griswold 9/23/8	

BUILDING: Auxiliary Boiler Feed Pump Bldg.		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-23 - 8-3		•
PHOTOGRAPH NO.: 1215		
BACKGROUND NO.: Sheet 83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PC 1213 Sensing Line		
SOURCE: Space Heater		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
		•
EVALUATION OF INTERACTION:	· -	
EVALUATION NOTE NO: 7		
		·
	v	POTENTIALLY
ACCEPTABLE	X	UNACCEPTABLE
D. Davidania		
R Daverio 9/17/82	W Griswold	9/23/82

R Daverio 9/17/82 INTERACTION ENGINEER/DATE	W Griswold VERI	9/23/82 FIED/DATE
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
•	•	·
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:	,	
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
TARGET: PT 1261 Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1214		•
POTENTIAL INTERACTION NO.: I-23 - 9-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

		· ·
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PT 1261 Sensing Line		
SOURCE: Space Heater		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		. •
EVALUATION OF INTERACTION:		·
EVALUATION NOTE NO: 7		
•		·
ACCEPTABLE	Х	POTENTIALLYUNACCEPTABLE
R Daverio 9/17/82	W Griswold	9/23/82
INTERACTION ENGINEER / DATE	VERI	FIED/DATE

INTERACTION ENGINEER / DATE	VERIFIED/	DATE
R Daverio 9/17/82		3/ <u>8</u> 2
		UNACCEPTABLI
ACCEPTABLE	X	POTENTIALLY
EVALUATION NOTE NO: 7	•	
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
		,
TARGET: PT 1261 Sensing Line	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		•
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: I216		
POTENTIAL INTERACTION NO.: I-23 - 9-5		
LOCATION WITHIN FIRE ZONE:	·	
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 9-6

PHOTOGRAPH NO.: I216

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1261 Sensing LIne

SOURCE: 4" Drain Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

R Daverio 9/17/82

INTERACTION ENGINEER/DATE

X POTENTIALLY UNACCEPTABLE

W Griswold 9/23/82

VERIFIED/DATE

X	POTENTIALLYUNACCEPTABLE
•	
	•
,	
	•

R Daverio 9/17/82

INTERACTION ENGINEER/DATE

9/23/82

VERIFIED/DATE

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

ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target		•
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		·
TARGET: PT 1264 Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: I216		
POTENTIAL INTERACTION NO.: I-23 - 10-5		
LOCATION WITHIN FIRE ZONE:		•
FIRE ZONE: 23	· .	
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 10-6

PHOTOGRAPH NO.: I216

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1264 Sensing Line

SOURCE: 4" Drain Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

W Griswold 9/23/82 VERIFIED/DATE

BUILDING: Auxiliary	Boiler	Feed	Pump	Bldg.
---------------------	--------	------	------	-------

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 11-1

PHOTOGRAPH NO.:

I214

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI-Gage "C"

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY X ACCEPTABLE -UNACCEPTABLE R Daverio 9/17/82 W Griswold 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 12-7

PHOTOGRAPH NO.: I217

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 406A

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION: \

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE R Daverio 9/17/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 13-7

PHOTOGRAPH NO.:

I217

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 406A Sensing Line

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER/DATE

W Griswold

9/23/82

BUILDING:	Auxiliary	Boiler	Feed	Pump	Bldg.
FIRE ZONE:	23				

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 14-2

PHOTOGRAPH NO.: 1218

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FE 1121

SOURCE: 2" Station Air Line (Left arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

R Daverio 9/17/82

INTERACTION ENGINEER/DATE

POTENTIALLY
UNACCEPTABLE

W Griswold 9/23/82

VERIFIED/DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 14-3

PHOTOGRAPH NO.: 1218

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FE 1121

SOURCE: 4" Drain Line (Right arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82

VERIFIED/DATE

W Griswold

9/23/82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 14-4

PHOTOGRAPH NO.: I219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

FE 1121

SOURCE: Space Heater (left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

FE protected by other pipes

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER/DATE

W Griswold

9/23/82

BUILDING:	Auxiliary	Boiler	Feed	Pump	Bldg
FIRE ZONE:	23				
LOCATION WIT	HIN FIRE 2	CONE:			

POTENTIAL INTERACTION NO.: I-23 - 14-5

PHOTOGRAPH NO.: 1219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FE 1121

SOURCE: Space Heater (right)

DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target

EVALUATION OF INTERACTION: FE protected by other pipes

EVALUATION NOTE NO:

Х	ACCEPTABLE		POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

W Griswold 9/23/82 VERIFIED/DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 14-6

PHOTOGRAPH NO.: 1219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FE 1121

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

FE protected by other pipes

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

R Daverio

W Griswold 9/23/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: I-23 - 15-2
PHOTOGRAPH NO.: 1218
BACKGROUND NO.: Sheet 83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: FC 1135 S
*
SOURCE: 2" Station Air Line (left arrow)
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 7
DOMDNMT AT TW
ACCEPTABLE X POTENTIALLY UNACCEPTABL
R Daverio 9/17/82 - W Griswold 9/23/82 INTERACTION ENGINEER/DATE VERIFIED/DATE

INTERACTION ENGINEER/DATE	VER.	IFIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	<u>X</u>	POTENTIALLY UNACCEPTABL
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		•
· · · · · · · · · · · · · · · · · · ·		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 4" Drain Line (right arrow)		
TARGET: FC 1135 S		·
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83	,	
PHOTOGRAPH NO.: 1218		
POTENTIAL INTERACTION NO.: I-23 - 15-3		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		·

BUILDING: Auxiliary Boiler Feed Pump Bldg.	,	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-23 - 15-4		
PHOTOGRAPH NO.: 1219		
BACKGROUND NO.: Sheet 83	- -	
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
TARGET: FC 1135 S		•
SOURCE: Space Heaters		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
ACCEPTABLE	x	\ POTENTIALLY
		UNACCEPTABLE
R Daverio 9/17/82 INTERACTION ENGINEER/DATE	W Griswold VERI	9/23/82 FIED/DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.			
FIRE ZONE: 23			·
LOCATION WITHIN FIRE ZONE:	•		
POTENTIAL INTERACTION NO.: I-23 - 15-5			
PHOTOGRAPH NO.: I219			
BACKGROUND NO.: Sheet 83			
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: FC 1135 S			
		·	
SOURCE: Space Heaters		·	
·			
DESCRIPTION OF POSTULATED INTERACTION:	•		
Source falls on target		,	•
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 7			•
,		·	
•			٠
ACCEPTABLE	X		POTENTIALLYUNACCEPTABLE
R Daverio 9/17/82 INTERACTION ENGINEER/DATE	W Griswold V	9/23/ ERIFIED/DA	

INTERACTION ENGINEER / DATE

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

ACCEPTABLE	X	UNACCEPTABLI
		POTENTIALLY
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		·
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
TARGET: TO 1133 3		
TARGET: FC 1135 S		:
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1219		
POTENTIAL INTERACTION NO.: I-23 - 15-6		•
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		•
BUILDING: Auxiliary Boiler Feed Pump Bldg.		
		•

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERIFIED/DATE		
R Daverio 9/17/82		/23/82	
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE	
EVALUATION NOTE NO: 6			
EVALUATION OF INTERACTION:			
,			
Source falls on target		·	
DESCRIPTION OF POSTULATED INTERACTION:			
SOURCE: 2 Seacton All Line (2016 day	,	·	
SOURCE: 2" Station Air Line (Left arm	row)		
TARGET: FC 1135 S HP Sensing Line			
IDENTIFICATION OF INTERACTION COMPONENTS:			
BACKGROUND NO.: Sheet 83			
PHOTOGRAPH NO.: I218			
POTENTIAL INTERACTION NO.: I-23 - 16-2			
LOCATION WITHIN FIRE ZONE:			
FIRE ZONE: 23		•	
BUILDING: Auxiliary Boiler Feed Pump Bldg.			
DIVID DIVID			

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

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

ACCEPTABLE	X .	POTENTIALLY UNACCEPTABLE
, .		
EVALUATION NOTE NO: 6	•	
EVALUATION OF INTERACTION:		••
Source falls on target		·
DESCRIPTION OF POSTULATED INTERACTION:		
DECEPTORION OF DOCUME AMED THEFTA ON TON .		
SOURCE: 4" Drain Line		
	•	
TARGET: FC 1135 S HP Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		
	,	
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: I218		
POTENTIAL INTERACTION NO.: I-23 - 16-3		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

d<u>9/23/82</u> VERIFIED/DATE

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: 1-23 - 16-4

PHOTOGRAPH NO.: I219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FC 1135 S HP Sensing Line

SOURCE:

Space Heaters

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R Daverio INTERACTION ENGINEER/DATE

9/23/82 W Griswold VERIFIED/DATE

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 16-5

PHOTOGRAPH NO.: I219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FC 1135 S HP Sensing Line

SOURCE: Space Heaters

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER / DATE W Griswold 9/23/82 VERIFIED/DATE

DIT	тт	ŊΤ	NT.	o.
BU	± 1	ע עני	.N	.

Auxiliary Boiler Feed Pump Bldg,

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 16-6

PHOTOGRAPH NO.: I219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FC 1135 S HP Sensing Line

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION: Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE UNACCEPTABLE R Daverio W Griswold. 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

NONCONNECTED SYSTEMS EVALUATION S			
BUILDING: Auxiliary Boiler Feed Pump Bldg.	· •-		
FIRE ZONE: 23			
LOCATION WITHIN FIRE ZONE:			
POTENTIAL INTERACTION NO.: I-23 - 17-2			
PHOTOGRAPH NO.: 1218			
BACKGROUND NO.: Sheet 83			
IDENTIFICATION OF INTERACTION COMPONENTS:			
TARGET: FC 1135 S LP Sensing Line			
SOURCE: 2" Station Air Line (Left ar	row)		
DESCRIPTION OF POSTULATED INTERACTION:			
Source falls on target		•	
EVALUATION OF INTERACTION:			·
EVALUATION NOTE NO: 6			
·			,
ACCEPTABLE	X		POTENTIALLY UNACCEPTABL
R Daverio 9/17/82	W Griswold	9/23/	′82
INTERACTION ENGINEER / DATE	VE	RIFIED/D	

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 17-3

PHOTOGRAPH NO.:

1218

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

FC 1135 S LP Sensing Line

SOURCE:

4" Drain Line (Right arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER/DATE

W Griswold 9/23/82 VERIFIED/DATE

BUILDING: Aux	iliary Boiler Feed Pump Bldg,	•	
FIRE ZONE: 23	•	•	
LOCATION WITHIN 1	FIRE ZONE:		,
POTENTIAL INTERA	CTION NO.: I-23 - 17-4		,
PHOTOGRAPH NO.:	1219		
BACKGROUND NO.:	Sheet 83		
·			
IDENTIFICATION OF	F INTERACTION COMPONENTS:		
TARGET: FC	1135 S LP Sensing Line		
		•	
SOURCE: Sp.	ace Heaters		
	OSTULATED INTERACTION: lls on target		
EVALUATION OF INT	TERACTION:		· .
EVALUATION N	OTE NO: 7		
		`	
	•		POTENTIALLY
	ACCEPTABLE	. <u>X</u>	UNACCEPTABLE
R Daverio INTERACTION ENGIN	9/1//82	W Griswold VERT	9/23/82 FIED/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

INTERACTION ENGINEER / DATE		IFIED/DATE
R Daverio 9/17/82	_W_Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		· .
SOURCE: Space Heaters		•
·	•	
TARGET: FC 1135 S LP Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		·
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1219		
POTENTIAL INTERACTION NO.: I-23 - 17-5		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.	•	,

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 17-6

PHOTOGRAPH NO.: 1219

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FC 1135 S LP Sensing Line

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

INTERACTION ENGINEER/DATE

W Griswold

9/23/82

INTERACTION ENGINEER / DATE

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

ACCEPTABLE	X		POTENTIALLY —UNACCEPTABLI
EVALUATION NOTE NO: 7			
EVALUATION OF INTERACTION:			
Source falls on target			
DESCRIPTION OF POSTULATED INTERACTION:			
SOURCE: Light			
TARGET: PT 1260			
IDENTIFICATION OF INTERACTION COMPONENTS:		-	
BACKGROUND NO.: Sheet 83			
PHOTOGRAPH NO.: 1217			
POTENTIAL INTERACTION NO.: I-23 - 18-1			
LOCATION WITHIN FIRE ZONE:			
FIRE ZONE: 23			
BUILDING: Auxiliary Boiler Feed Pump Bldg.	,		

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 19-1

PHOTOGRAPH NO.: I217

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1260 Sensing Line

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION: Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

INTERACTION ENGINEER/DATE

W Griswold

9/23/82

BUILDING:	
-----------	--

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 20-2

PHOTOGRAPH NO.:

I220

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1263 Sensing Line

SOURCE: 2" Station Air Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio INTERACTION ENGINEER / DATE W Griswold VERIFIED/DATE

INTERACTION ENGINEER / DATE	TEDTETED/I	እለጥ ሮ
R Daverio 9/17/82	W Griswold 9/23/82	
ACCEPTABLE	X ·	POTENTIALLY UNACCEPTABLE
	•	
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: LIGHT		
SOURCE: Light		
TARGET: PT 406B		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1221		
POTENTIAL INTERACTION NO.: I-23 - 21-7		
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.	•	

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

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

	ACCEPTABLE	X	POTENTIALLY ——UNACCEPTABL
•	•		
EVALUAT	ION NOTE NO: 7		
EVALUATION (OF INTERACTION:	×.	
Sour	ce falls on target		
•	OF POSTULATED INTERACTION:		
SOURCE	Light		
TARGET	PT 406B Sensing Line	4	
IDENTIFICAT	ION OF INTERACTION COMPONENTS:		
BACKGROUND 1	NO.: Sheet 83		
PHOTOGRAPH 1	NO.: I221		
POTENTIAL I	NTERACTION NO.: I-23 - 22-7		
LOCATION WI	THIN FIRE ZONE:		
FIRE ZONE:	23		` `
BUILDING:	Auxiliary Boiler Feed Pump Bldg.		

W Griswold 9/23/82

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 23-2

PHOTOGRAPH NO.:

I223

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

FE 1123

SOURCE: 2" Station Air Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER/DATE

W Griswold

9/23/82

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 23-7

PHOTOGRAPH NO.: 1223

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FE 1123

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

INTERACTION ENGINEER / DATE

W Griswold

9/23/82

INTERACTION ENGINEER/DATE	VERI	FIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
XACCEPTABLE		POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 3	·	
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Space Heater		
	·	· .
TARGET: FE 1123		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
		,
POTENTIAL INTERACTION NO.: I-23 - 23-8		
LOCATION WITHIN FIRE ZONE:	1	
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

		:
BUILDING: Auxiliary Boiler Feed Pump Bldg.		
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZCNE:		
POTENTIAL INTERACTION NO.: I-23 - 24-2		1
PHOTOGRAPH NO.: 1223		
BACKGROUND NO.: Sheet 83		
-		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: FC 1136 S	b	
SOURCE: 2" Station Air Line		
DESCRIPTION OF POSTULATED INTERACTION:		
Source falls on target		
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
	· ·	
		•
ACCEPTABLE	X	POTENTIALLYUNACCEPTABL
R Daverio 9/17/82	W Griswold	9/23/82
INTERACTION ENGINEER / DATE	VERIFIED/DATE	

BUILDING:	BU	JI	L	D	Ι	N	G	:
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Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 24-7

PHOTOGRAPH NO.:

1223

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

FC 1136 S

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION: Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER/DATE W Griswold VERIFIED/DATE

DVALUATION 5.	IIEE1		
BUILDING: Auxiliary Boiler Feed Pump Bldg.			
FIRE ZONE: 23			
LOCATION WITHIN FIRE ZCNE:			
POTENTIAL INTERACTION NO.: 1-23 - 24-8			
PHOTOGRAPH NO.: I223			
BACKGROUND NO.: Sheet 83			
		٠.	
IDENTIFICATION OF INTERACTION COMPONENTS:		•	
TARGET: FC 1136 S			
SOURCE: Space Heater		·	
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target			
Source fails on target			
EVALUATION OF INTERACTION:			
EVALUATION NOTE NO: 7			
•	,		DOMINIMI AT TY
ACCEPTABLE	· · · · · · · · · · · · · · · · · · ·	X	POTENTIALLYUNACCEPTABLE
R Daverio	W Griswol	ld	100
9/17/82 INTERACTION ENGINEER/DATE		VERIFIED/D	

ACCEPTABLE	X		POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 6			
EVALUATION OF INTERACTION:			
Source falls on target	. ,		
DESCRIPTION OF POSTULATED INTERACTION:	-,		
SOURCE: 2" Station Air Line			
TARGET: FC 1136 S HP Sensing Line			
IDENTIFICATION OF INTERACTION COMPONENTS:		•	
BACKGROUND NO.: Sheet 83			
PHOTOGRAPH NO.: 1223			
LOCATION WITHIN FIRE ZONE: POTENTIAL INTERACTION NO.: I-23 - 25-2			
FIRE ZONE: 23			
BUILDING: Auxiliary Boiler Feed Pump Bldg.			

INTERACTION ENGINEER / DATE	VERIFIED/DATE		
R Daverio 9/17/82	W Griswold	9/23/82	
		UNACCEPTABLE	
ACCEPTABLE	X	POTENTIALLY	
•			
		•	
EVALUATION NOTE NO: 7			
EVALUATION OF INTERACTION:			
Source laits on target	· · · · · · · · · · · · · · · · · · ·	•	
Source falls on target			
DESCRIPTION OF POSTULATED INTERACTION:			
SOURCE: Light			
TARGET: FC 1136 S HP Sensing Line			
IDENTIFICATION OF INTERACTION COMPONENTS:			
		·	
BACKGROUND NO.: Sheet 83			
PHOTOGRAPH NO.: 1223			
POTENTIAL INTERACTION NO.: I-23 - 25-7			
LOCATION WITHIN FIRE ZONE:	No.	•	
FIRE ZONE: 23	•		
BUILDING: Auxiliary Boiler Feed Pump Bldg.			

INTERACTION ENGINEER / DATE	VERIFIE	D/DATE
<u>Daverio</u> 9/17/82	W Griswold 9	/23/82
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
¥	•	
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:	,	
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Space Heater		
TARGET: FC 1136 S HP Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		,
PHOTOGRAPH NO.: 1223		
POTENTIAL INTERACTION NO.: I-23 - 25-8		
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.	•	•

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERI	FIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
		٠.
EVALUATION NOTE NO: 6		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 2" Station Air Line		
TARGET: FC 1136 S LP Sensing Lin	e ·	
IDENTIFICATION OF INTERACTION COMPONENTS:		
INDIVITED CATION OF THEF ACTION COMPONERUS.	·	
BACKGROUND NO.: Sheet 83		
	,	
PHOTOGRAPH NO.: 1223	·	
POTENTIAL INTERACTION NO.: I-23 - 26-2		
LOCATION WITHIN FIRE ZONE:		•
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bl	dg.	

BUILDING: Auxilian	y Boiler	Feed	Pump	Bldg.
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 26-7

PHOTOGRAPH NO.: 1223

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FC 1136 S LP Sensing Line

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE R Daverio 9/17/82 W Griswold 9/23/82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING:	Auxiliary	Boiler	Feed	Pump	Bldg.
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FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 26-8

PHOTOGRAPH NO.: I223

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FC 1136 S LP Sensing Line

SOURCE: Space Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE X POTENTIALLY UNACCEPTABLE

R Daverio 9/17/82 W Griswold 9/23/82
INTERACTION ENGINEER/DATE VERIFIED/DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.
FIRE ZONE: 23
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: 1-23 - 27-7
PHOTOGRAPH NO.: I221
BACKGROUND NO.: Sheet 83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: PI 1262
SOURCE: Light
DESCRIPTION OF POSTULATED INTERACTION:
Source falls on target
EVALUATION OF INTERACTION:
EVALUATION NOTE NO: 7

ACCEPTABLE

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

X POTENTIALLY
UNACCEPTABLE

W Griswold 9/23/82
VERIFIED/DATE

BUILDING:	
-----------	--

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 28-1

PHOTOGRAPH NO.:

I221

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PT 1262 Sensing Line

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

W Griswold

9/23/82.

INTERACTION ENGINEER / DATE

VERIFIED/DATE

INTERACTION ENGINEER/DATE

9/23/82

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: Auxiliary Boiler Feed Pump Bldg.	,	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE:		· .
POTENTIAL INTERACTION NO.: I-23 - 29-2		
PHOTOGRAPH NO.: 1222		
BACKGROUND NO.: Sheet 83		
	~	
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PT 1265 Sensing Line		
	·	
SOURCE: Light		
DESCRIPTION OF POSTULATED INTERACTION:	. · ·	
Source falls on target		••
EVALUATION OF INTERACTION:		
EVALUATION NOTE NO: 7		
ACCEPTABLE	Х	POTENTIALLY WNACCEPTABLE
R Daverio 9/17/82	W Griswold	9/23/82

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 29-3

PHOTOGRAPH NO.:

I222

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

DESCRIPTION OF POSTULATED INTERACTION:

TARGET:

PT 1265 Sensing Line

SOURCE: Space Heater

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

7/1//02

W Griswold

9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

INTERACTION ENGINEER/DATE	VERIFIE	/
R Daverio 9/17/82	W_Griswold 9/23	
ACOLI IABLE		UNACCEPTABLE
ACCEPTABLE	X	POTENTIALLY
•		
EVALUATION NOTE NO: 6		•
EVALUATION OF INTERACTION:	-	
Source falls on target	•	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: 4" Drain Line (lower arrow)	,	١
COMMOD. All Drois Idea (1		•
TARGET: PT 1265 Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		•
BACKGROUND NO.: Sheet 83	•	
PHOTOGRAPH NO.: 1222	•	
POTENTIAL INTERACTION NO.: I-23 - 29-4		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

INTERACTION ENGINEER/DATE

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

	•		
BUILDING:	Auxiliary Boiler Feed Pump Bldg.		
FIRE ZONE:	23		
LOCATION WITH	IN FIRE ZONE:		
POTENTIAL INT	ERACTION NO.: 1-23 - 29-5		
PHOTOGRAPH NO	.: 1222		
BACKGROUND NO	.: Sheet 83		
	•		
IDENTIFICATION	N OF INTERACTION COMPONENTS:		
TARGET:	PT 1265 Sensing Line		
SOURCE:	2" Station Air (left arrow)		
DESCRIPTION OF	F POSTULATED INTERACTION:		
	Source falls on target		
EVALUATION OF	INTERACTION:		·
EVALUATIO	N NOTE NO: 6	•	
	ACCEPTABLE	. X	POTENTIALLY UNACCEPTABLE
R Daverio	9/17/82	W Griswold	0/23/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE

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

		UNACCEPTABL
ACCEPTABLE	X	POTENTIALLY
EVALUATION NOTE NO: 7	·	
EVALUATION OF INTERACTION:		• •
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target		
SOURCE: 4" Drain Line		
TARGET: Rack No. 8		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1224, 1225, 1226		
POTENTIAL INTERACTION NO.: I-23 - 30-4		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg	.•	
	*	

Ebasco Services Incorporated

INTERACTION ENGINEER/DATE

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

BUILDING:	Auxiliary Boiler Feed Pump Bld	g.	
FIRE ZONE:	23		
LOCATION WITH	IN FIRE ZONE:		,
POTENTIAL INT	ERACTION NO.: I-23 - 30-6		
PHOTOGRAPH NO	.: 1224, 1225		
BACKGROUND NO	Sheet 83		•
IDENTIFICATIO	N OF INTERACTION COMPONENTS:		
TARGET:	Rack No. 8		
SOURCE:	Space Heater (upper righ	t arrow I-224)	
DESCRIPTION O	F POSTULATED INTERACTION: Source falls on target		
	,	•	
EVALUATION OF	INTERACTION:		
EVALUATIO	ON NOTE NO: 7		
	ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R Daverio	9/17/82	W Griswold	0/22/82

Ebasco Services Incorporated

INTERACTION ENGINEER / DATE	VERIF:	ED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
	•••	
ACCEPTABLE	X	POTENTIALLYUNACCEPTABLE
		,
EVALUATION NOTE NO: 7		•
EVALUATION OF INTERACTION:		
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target		
SOURCE: Space Heater (2nd arrow fi	rom right-center)	·
TARGET: Rack No. 8		
IDENTIFICATION OF INTERACTION COMPONENTS:	,	
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: I224		
POTENTIAL INTERACTION NO.: I-23 - 30-7		
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bld	lg.	

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 30-8

PHOTOGRAPH NO.: 1224, 1225, 1226

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Rack No. 8

SOURCE: Light

(upper left arrow 1-224)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER / DATE

W Griswold

9/23/82

VERIFIED/DATE

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

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

BUILDING:	Auxiliary Boiler Feed Pump Bldg.	
FIRE ZONE:	23	
LOCATION WITH	HIN FIRE ZCNE:	
POTENTIAL INT	TERACTION NO.: 1-23 - 30-9	
PHOTOGRAPH NO	0.: 1224, 1225	
BACKGROUND NO	O.: Sheet 83	i.e.
IDENTIFICATIO	ON OF INTERACTION COMPONENTS:	
TARGET:	Rack No. 8	
SOURCE:	Light (lower right arrow I-224)	
DESCRIPTION O	OF POSTULATED INTERACTION:	
	Source falls on target	
EVALUATION OF	F INTERACTION:	
EVALUATIO	ION NOTE NO: 7	
	•	
	ACCEPTABLE X PO	TENTIALLY ACCEPTABLE

Ebasco Services Incorporated

W Griswold

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BU	\perp \perp	וטי	.N(٠:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 30-10

PHOTOGRAPH NO.: 1224

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: Rack No. 8

SOURCE: Light (3rd arrow from right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

INTERACTION ENGINEER/DATE

W Griswold

INTERACTION ENGINEER DATE

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

R Daverio 0/17/82	W Griswold	0/22/02
ACCEPTABLE	Х	POTENTIALLY UNACCEPTABL
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		•
		•
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light (Right arrow)		
TARGET: PM 405A		
IDENTIFICATION OF INTERACTION COMPONENTS:	•	
		·
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1227		
POTENTIAL INTERACTION NO.: I-23 - 31-8		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

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INTERACTION ENGINEER / DATE	VER	IFIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		•
• •		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Loudspeaker	·	
TARGET: PM 405A		
IDENTIFICATION OF INTERACTION COMPONENTS:		1
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: I227		
POTENTIAL INTERACTION NO.: I-23 - 31-11		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23	,	
BUILDING: Auxiliary Boiler Feed Pump Bldg.		

Ebasco Services Incorporated

BUILDING: Auxiliary Boiler Feed Pump Bldg.	· .	
FIRE ZONE: 23		
LOCATION WITHIN FIRE ZONE:		
POTENTIAL INTERACTION NO.: I-23 - 31-12		
PHOTOGRAPH NO.: 1227		
BACKGROUND NO.: Sheet 83		
IDENTIFICATION OF INTERACTION COMPONENTS:		
TARGET: PM 405A		
SOURCE: Conduit		
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target		
EVALUATION OF INTERACTION:		•
EVALUATION NOTE NO: 3		
	•	•
XACCEPTABLE		POTENTIALLY UNACCEPTABLE
R Daverio 9/17/82 INTERACTION ENGINEER/DATE	W Griswold VER	9/23/82 IFIED/DATE

R Daverio

INTERACTION ENGINEER / DATE

9/23/82

VERIFIED/DATE

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

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INTERACTION ENGINEER / DATE	VERT	FIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7		
EVALUATION OF INTERACTION:		
Source falls on target	•	
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Loudspeaker		
TARGET: PM 405B		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1227		
POTENTIAL INTERACTION NO.: I-23 - 32-11	•	
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bldg	. ·	

INTERACTION ENGINEER/DATE	VERIFIED/DATE
R Daverio 9/17/82	W Griswold 9/23/82
	UNACCEPTABLE
X ACCEPTABLE	POTENTIALLY
EVALUATION NOTE NO: 3	
EVALUATION NOTE NO: 3	
EVALUATION OF INTERACTION:	
Source falls on target	· .
DESCRIPTION OF POSTULATED INTERACTION:	
SOURCE: Conduit	
TARGET: PM 405B	
IDENTIFICATION OF INTERACTION COMPONENTS:	
BACKGROUND NO.: Sheet 83	•
PHOTOGRAPH NO.: 1227	
POTENTIAL INTERACTION NO.: I-23 - 32-12	
LOCATION WITHIN FIRE ZONE:	
FIRE ZONE: 23	
BUILDING: Auxiliary Boiler Feed Pump Bldg.	

INTERACTION ENGINEER / DATE	VE	RIFIED/I	DATE	
R Daverio 9/17/82	W Griswold	q	/23/82	
ACCEPTABLE	X			TIALLY EPTABLE
•	•			
EVALUATION NOTE NO: 7			•	
EVALUATION OF INTERACTION:			·	
DESCRIPTION OF POSTULATED INTERACTION: Source falls on target				
SOURCE: Light				
· · · · · · · · · · · · · · · · · · ·				
TARGET: PM 405D				
IDENTIFICATION OF INTERACTION COMPONENTS:				•
•				
BACKGROUND NO.: Sheet 83				
PHOTOGRAPH NO.: 1228				
POTENTIAL INTERACTION NO.: I-23 - 33-1				
LOCATION WITHIN FIRE ZONE:				
FIRE ZONE: 23	,			
BUILDING: Auxiliary Boiler Feed Pump Bldg	3.			

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 33-2

PHOTOGRAPH NO.: 1228, 1229

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PM 405D

SOURCE: 4" Drain Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

R Daverio

INTERACTION ENGINEER/DATE

W Griswold

9/23/82

VERIFIED/DATE

R Daverio

INTERACTION ENGINEER / DATE

9/23/82

VERIFIED/DATE

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

			OMMOODI TABL
	ACCEPTABLE	. x	POTENTIALLY UNACCEPTABL
EVALUATION	NOTE NO: 7		
EVALUATION OF I	NTERACTION:		•
	,		
•	falls on target		
DESCRIPTION OF	POSTULATED INTERACTION:		
SOURCE:	Light		
TARGET:	PM 405C	•,	
IDENTIFICATION	OF INTERACTION COMPONENTS:		
	,		/
BACKGROUND NO.:	Sheet 83		
PHOTOGRAPH NO.:	1228		
POTENTIAL INTER	ACTION NO.: I-23 - 34-1		
LOCATION WITHIN	FIRE ZONE:		
FIRE ZONE:	23		
BUILDING:	Auxiliary Boiler Feed Pump Bld	g.	

Ebasco Services Incorporated

W Griswold

BUI	LDING	}:
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Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 34-2

PHOTOGRAPH NO.: 1228, 1229

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PM 405C

SOURCE: 4" Drain Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE R Daverio 9/17/82 INTERACTION ENGINEER / DATE

POTENTIALLY -UNACCEPTABLE

W Griswold

9/23/82

VERIFIED/DATE

INTERACTION ENGINEER/DATE	VERI	FIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7	·	
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
TARGET: PM 4U6A		*
TARGET: PM 406A		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: I230 BACKGROUND NO.: Sheet 83		
POTENTIAL INTERACTION NO.: I-23 - 35-3		
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Blo	dg.	

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 35-4

PHOTOGRAPH NO.: 1230

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PM 406A

SOURCE: Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

R Daverio INTERACTION ENGINEER/DATE W Griswold 9/23/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIF	IED/DATE
_R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
EVALUATION NOTE NO: 7		•
EVALUATION OF INTERACTION:		•
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
TARGET: PM 406B		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1230		
POTENTIAL INTERACTION NO.: I-23 - 36-3		
LOCATION WITHIN FIRE ZCNE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump B	ldg.	

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 36-4

PHOTOGRAPH NO.: 1230

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PM 406B

SOURCE:

Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

INTERACTION ENGINEER / DATE

W Griswold

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 37-5

PHOTOGRAPH NO.: 1231

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PM 406D

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER/DATE

W Griswold

/917/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERII	FIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
•		
EVALUATION NOTE NO: 7		
· ·		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
•		
SOURCE: Light		
TARGET: PM 406C		
IDENTIFICATION OF INTERACTION COMPONENTS:		
IDENTIFICATION OF INTERACTION COMPONENTS.		
BACKGROUND NO.: Sheet 83		
PHOTOGRAPH NO.: 1231		
POTENTIAL INTERACTION NO.: I-23 - 38-5	•	
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bl	Ldg.	
RITI DINC.		

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 39-6

PHOTOGRAPH NO.: 1216

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PI 1205

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER / DATE

W'Griswold 9/23/82

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: .

POTENTIAL INTERACTION NO.: I-23 - 39-7

PHOTOGRAPH NO.: 1216

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1205

SOURCE: 4" Drain Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on Target

EVALUATION OF INTERACTION: PI protected by other pipes

EVALUATION NOTE NO: 4

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER / DATE

W Griswold

9/23/82

VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERIFIED/DATE	_
R Daverio 9/17/82	W Griswold 9/23/82	
ACCEPTABLE	POTENTIALL UNACCEPTAB	_
•	•	
EVALUATION NOTE NO: 4		
EVALUATION OF INTERACTION: PI protected by	other pipes	
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Space Heater		
TARGET: PI 1205		
IDENTIFICATION OF INTERACTION COMPONENTS:		
DACKGROUND NO Sneet 63		
BACKGROUND NO.: Sheet 83	•	
PHOTOGRAPH NO.: I216	•	
POTENTIAL INTERACTION NO.: 1-23 - 39-8		
LOCATION WITHIN FIRE ZONE:	l e e e e e e e e e e e e e e e e e e e	
FIRE ZONE: 23	Ÿ	
BUILDING: Auxiliary Boiler Feed Pump	Bldg.	

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE:

POTENTIAL INTERACTION NO.: 1-23 - 40-6

PHOTOGRAPH NO.: 1216

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

PT 1205 Sensing Line

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

R Daverio

INTERACTION ENGINEER/DATE

W Griswold

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 40-7

PHOTOGRAPH NO.: 1216

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1205 Sensing Line

SOURCE: 4" Drain Line

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

POTENTIALLY -UNACCEPTABLE

R Daverio INTERACTION ENGINEER / DATE

W Griswold 9/23/82 VERIFIED/DATE

INTERACTION ENGINEER / DATE	VERI	FIED/DATE
R Daverio 9/17/82	W Griswold	9/23/82
ACCEPTABLE	· X	POTENTIALLYUNACCEPTABL
EVALUATION NOTE NO:7		•
EVALUATION OF INTERACTION:		
THAT WARTON OR THERE I SEE OF		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Space Heater	•	
TARGET: PT 1205 Sensing Line	•	
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 83		·
PHOTOGRAPH NO.: 1216		
POTENTIAL INTERACTION NO.: I-23 - 40-8		
LOCATION WITHIN FIRE ZONE:		•
		·
	ug.	
BUILDING: Auxiliary Boiler Feed Pump Bl	da	

Ebasco Services Incorporated

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 41-1

PHOTOGRAPH NO.: I232

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Rack No. 26

SOURCE:

Lights .

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target'

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER / DATE

W Griswold

9/23/82

BUIL	DING:
------	-------

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 42-1

PHOTOGRAPH NO.: I232

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

FT 1200 Sensing Lines

SOURCE: Lights

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

W Griswold

9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

BUILDING:	DTPDT	NG	•
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Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 43-1

PHOTOGRAPH NO.: 1232

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1201 Sensing Lines

SOURCE: Lights

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

9/17/82 R Daverio INTERACTION ENGINEER / DATE

W_Griswold

9/23/82

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 44-1

PHOTOGRAPH NO.: 1232

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1202 Sensing Lines

SOURCE: Lights

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

R Daverio 9/17/82 INTERACTION ENGINEER / DATE

W Griswold

9/23/82

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 45-1

PHOTOGRAPH NO.: 1232

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

FT 1203 Sensing Lines

SOURCE:

Lights

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

Х

POTENTIALLY UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER/DATE

W Griswold

9/23/82

VERIFIED/DATE

BUILDING: Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 46-1

PHOTOGRAPH NO.: 1234

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 11765

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

9/17/82

INTERACTION ENGINEER/DATE

W Griswold

INTERACTION ENGINEER/DATE

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

BUILDING:	Auxiliary Boiler Feed Pump B	ldg.	
FIRE ZONE:	23		
LOCATION WITHIN	FIRE ZONE:		
POTENTIAL INTER	RACTION NO.: 1-23 - 47-1		
PHOTOGRAPH NO.:	1234		
BACKGROUND NO.:	Sheet 83		
IDENTIFICATION	OF INTERACTION COMPONENTS:		
TARGET:	PT 1126 Sensing Line		
SOURCE:	Light		
DESCRIPTION OF	POSTULATED INTERACTION:		
Source	falls on target		
EVALUATION OF I	NTERACTION:		
EVALUATION	NOTE NO: 7		
	ACCEPTABLE	<u> </u>	POTENTIALLY UNACCEPTABLI
P Daverio	9/17/82	II Cod our 1d	0/22/82

Ebasco Services Incorporated

R Daverio 9/17/82
INTERACTION ENGINEER/DATE

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

	•	
BUILDING:	Auxiliary Boiler Feed Pump Bldg.	
FIRE ZONE:	23	
LOCATION WITHIN	FIRE ZONE:	
POTENTIAL INTER	ACTION NO.: I-23 - 48-1	
PHOTOGRAPH NO.:	1233	
BACKGROUND NO.:	Sheet 84	
-		
IDENTIFICATION	OF INTERACTION COMPONENTS:	
TARGET:	FE 1200	
SOURCE:	Light	
DESCRIPTION OF	POSTULATED INTERACTION:	
Source	falls on target	
PUALIMETON OF T	NIMED A CITATON	
EVALUATION OF I	NTERACTION:	
EVALUATION	NOTE NO: 3	
X	ACCEPTABLE	POTENTIALLY
. •		

W Griswold

INTERACTION ENG	INEER / DATE	VE	RIFIED/DA	ጥድ
R Daverio	9/17/82	W Griswold	9/	23/82
X	ACCEPTABLE			POTENTIALLY —UNACCEPTABLE
•				
EVALUATION	NOTE NO: 3			
EVALUATION OF I	NTERACTION:			:
Source	falls on target	,		
DESCRIPTION OF	POSTULATED INTERACTION:			
SOURCE:	Light		·	
TARGET:	FE 1201			
IDENTIFICATION	OF INTERACTION COMPONENTS:			
BACKGROUND NO.:	Sheet 84			
PHOTOGRAPH NO.:	1233			_
POTENTIAL INTER	ACTION NO.: I-23 - 49-1			
LOCATION WITHIN	FIRE ZCNE:			
FIRE ZONE:	23			•
BUILDING:	Auxiliary Boiler Feed Pump Bld	lg.		•

9/23/82

VERIFIED/DATE

W Griswold

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

BUILDING:	Aussilians Bailes Faal B Dlla	_	
	Auxiliary Boiler Feed Pump Bldg	, •	
FIRE ZONE:	23		
LOCATION WITHIN	FIRE ZONE:		
POTENTIAL INTER	ACTION NO.: I-23 - 50-1		
PHOTOGRAPH NO.:	1233		
BACKGROUND NO.:	Sheet 84		
IDENTIFICATION	OF INTERACTION COMPONENTS:		
TARGET:	FE 1202		
•	•		
SOURCE:	Light		•
	:		
DESCRIPTION OF	POSTULATED INTERACTION:		
Source	falls on target		
	·		
EVALUATION OF I	NTERACTION:	·	•
EVALUATION	NOTE NO: 3		
	•	·	POTENTIALLY
X	ACCEPTABLE		UNACCEPTABLE

9/17/82

R Daverio

INTERACTION ENGINEER/DATE

INTERACTION ENGINEER / DATE	VERIF	IED/DATÉ
R Daverio 9/17/82	W Griswold	9/23/82
X ACCEPTABLE		POTENTIALLYUNACCEPTABL
•		
EVALUATION NOTE NO: 3		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
SOURCE: Light		
TARGET: FE 1203		•
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 84		
PHOTOGRAPH NO.: 1233	•	
POTENTIAL INTERACTION NO.: I-23 - 51-1		
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bl	Ldg.	

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 52-1

PHOTOGRAPH NO.: 1233

BACKGROUND NO.: Sheet 84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1200 L.P. Sensing Line

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

R Daverio

INTERACTION ENGINEER / DATE

W Griswold

POTENTIALLY

-UNACCEPTABLE

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

BUILDING:	Auxiliary Boiler Feed Pump Bldg.
FIRE ZONE:	23
LOCATION WITHIN	FIRE ZCNE:
POTENTIAL INTER	ACTION NO.: I-23 - 53-1
PHOTOGRAPH NO.:	1233
BACKGROUND NO.:	Sheet 84
IDENTIFICATION (OF INTERACTION COMPONENTS:
TARGET:	FT 1200 H.P. Sensing Line
SOURCE:	Light
	POSTULATED INTERACTION: falls on target
EVALUATION OF IN	NTERACTION:
EVALUATION	NOTE NO: 7

ACCEPTABLE

R Daverio

INTERACTION ENGINEER/DATE

X

VERIFIED/DATE

W Griswold

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 54-1

PHOTOGRAPH NO.: I233

BACKGROUND NO.: Sheet 84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1201 L.P. Sensing line

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

R Daverio

INTERACTION ENGINEER / DATE

W Griswold

9/23/82

VERIFIED/DATE

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 55-1

PHOTOGRAPH NO.: 1233

BACKGROUND NO.:

Sheet 84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1201 H.P. Sensing Line

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE UNACCEPTABLE 9/17/82 9/23/82 R Daverio W Griswold 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

INTERACTION ENGINEER / DATE	VERIF	TED/DATE
R_Daverio9/17/82	W Griswold	9/23/82
		ONACCEI TABLI
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 7	••	
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:		
-	,	
SOURCE: Light		
TARGET: FT 1202 L.P. Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 84		
PHOTOGRAPH NO.: 1233		
POTENTIAL INTERACTION NO.: I-23 - 56-1		,
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump Bi	ldg.	

INTERACTION ENGINEER/DATE

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

	•		
BUILDING:	Auxiliary Boiler Feed Pump B	ldg.	
FIRE ZONE:	23		
LOCATION WITHIN	N FIRE ZONE:	/	
POTENTIAL INTE	RACTION NO.: I-23 - 57-1		
PHOTOGRAPH NO.	: I233		
BACKGROUND NO.	Sheet 84		
IDENTIFICATION	OF INTERACTION COMPONENTS:		
TARGET:	FT 1202 H.P. Sensing Line		
SOURCE:	Light		-
DESCRIPTION OF	POSTULATED INTERACTION:	·	. •
Source	falls on target		
EVALUATION OF 1	NTERACTION:		
EVALUATION	NOTE NO: 7		•
		,	
	ACCEPTABLE	X	POTENTIALLY UNACCEPTABL
			,
R Daverie	0/17/02	17 0 1 11	0.100.100

BUILDING:

Auxiliary Boiler Feed Pump Bldg.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-23 - 58-1

PHOTOGRAPH NO.: 1233

BACKGROUND NO.: Sheet 84

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1203 L.P. Sensing Line

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

Х

POTENTIALLY -UNACCEPTABLE

R Daverio INTERACTION ENGINEER/DATE

W Griswold

INTERACTION ENGINEER/DATE

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

P. Dovowia 9/17/82	W 0 11	0/22/82
ACCEPTABLE	X	POTENTIALLY UNACCEPTABLI
EVALUATION NOTE NO: 7		
EVALUATION NOTE NO.		
EVALUATION OF INTERACTION:		
Source falls on target		
DESCRIPTION OF POSTULATED INTERACTION:	ı	
SOURCE: Light		•
TARGET: FT 1203 H.P. Sensing Line		
IDENTIFICATION OF INTERACTION COMPONENTS:		
BACKGROUND NO.: Sheet 84		
PHOTOGRAPH NO.: 1233		
POTENTIAL INTERACTION NO.: I-23 - 59-1	•	
LOCATION WITHIN FIRE ZONE:		
FIRE ZONE: 23		
BUILDING: Auxiliary Boiler Feed Pump B	ldg.	

Ebasco Services Incorporated

Postulated Failure Modes

MECHANICAL FAILURES

- M 1 Ruptured Pipe or Tube
- ${\rm M}$ 2 Crimped or Collapsed Pipe or Tube
- M 3 Loss of Function (Pump, Fan, Blowers etc.)
- M 4 Loss of Valve Motive Power
- M 5 Failure of or damage to Valve Actuating Mechanism
- M 6 Other (Explain)

ELECTRICAL FAILURES

- E 1 Open Circuit
- E 2 Short Circuit
- E 3 Other (Explain)

INSTRUMENTATION & CONTROL FAILURES

- C 1 Fail High
- C 2 Fail Low
- C 3 Fail Open
- C 4 Fail Closed
- C 5 Loss of Motive Power
- C 6 Other (Explain)

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

SYSTEM NO	T-23			
SYSTEM NAME	Auxiliary Feedwat	er System		****
_				<u>· , </u>
	·			
FMEA CATEGORY			NON-CONNECTED	_ X
			INTERCONNECTED _	
,				
Migrey Sucares	2/4/83	-		`
PREPARED BY/DA	, ,	4 -	11	•
CHECKED BY/D	<u>4/21/83</u> ATE	W Gri	VERIFIED BY/DATE	3

Ebasco Services Incorporated

VERIFIED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 SYSTEMS INTERACTION STUDY FAILURE MODES AND EFFECTS ANALYSIS OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 23-I-1

Interaction Number(s): I-23-15-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: FC 1135 S

Auxiliary feedwater pump no. 31 recirculation flow controller.

Postulated Failure Mode(s) and Evaluation:

C-l-(P) A false high signal may close the recirc valve isolating the recirculation line provided for auxiliary feedwater pump protection.

Acceptable X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

G Durniak 2/4/83

EVALUATING ENGINEER/DATE

J R Price 4/21/83

CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK INDIAN POINT 3 SYSTEMS INTERACTION STUDY FAILURE MODES AND EFFECTS ANALYSIS OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 23-I-2

Interaction Number(s): I-23-16-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: FC 1135 S HP Sensing Line

Auxiliary feedwater pump no. 31 recirculation flow controller

Postulated Failure Mode(s) and Evaluation:

C-1-(P) See FMEA 23-I-1

Acceptable X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

G Durniak 2/4/83
EVALUATING ENGINEER/DATE

J R Price 4/21/83

FMEA NUMBER: 23-I-3

Interaction Number(s): I-23-17-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: FC 1135 S LP Sensing Line

Auxiliary feedwater pump no. 31 recirculation flow controller

Postulated Failure Mode(s) and Evaluation:

C-1-(P) See FMEA 23-I-1

X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

G Durniak 2/4/83

Acceptable

EVALUATING ENGINEER/DATE

J R Price 4/21/83

FMEA NUMBER: 23-1-4

Interaction Number(s): I-23-20-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: PT 1263 Sensing Line

Auxiliary feedwater pump no. 31 suction pressure.

Postulated Failure Mode(s) and Evaluation:

C-l-(P) An operator must open the city water supply to the auxiliary feedwater pump if suction pressure falls. A false high pressure signal will delay the operator's action.

Acceptable X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

G Durniak 2/4/83

J R Price 4/21/83

EVALUATING ENGINEER/DATE

FMEA NUMBER: 23-I-5

Interaction Number(s): I-23-24-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: FC 1136 S

Auxiliary feedwater pump no. 33 recirculation flow controller.

Postulated Failure Mode(s) and Evaluation:

C-1-(P) See FMEA 23-I-1

Acceptable $\frac{X}{Potentially\ Unacceptable/Safety\ Function\ Affected}$

G Durniak 2/4/83

EVALUATING ENGINEER/DATE

J R Price 4/21/83

FMEA NUMBER: 23-I-6

Interaction Number(s): I-23-25-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: FC 1136 S HP Sensing Line

Auxiliary feedwater pump no. 33 recirculation flow controller

Postulated Failure Mode(s) and Evaluation:

C-1-(P) See FMEA 23-I-5

Acceptable X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

G Durniak 2/4/83

EVALUATING ENGINEER/DATE

J R Price 4/21/83

FMEA NUMBER: 23-I-7

Interaction Number(s): I-23-26-2

Fire Zone: 23

Target Component(s)

Number, Description & Function: FC 1136 S LP Sensing Line

Auxiliary feedwater pump no. 33 recirculation flow controller

Postulated Failure Mode(s) and Evaluation:

C-1-(P) See FMEA 23-I-5

X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

Acceptable

G Durniak 2/4/83 EVALUATING ENGINEER/DATE J R Price 4/21/83

FMEA NUMBER: 23-I-8

Interaction Number(s): I-23-29-5

Fire Zone: 23

Target Component(s)

Number, Description & Function: PT 1265 Sensing Line

Auxiliary feedwater pump no. 33 suction pressure.

Postulated Failure Mode(s) and Evaluation:

C-1-(P) See FMEA 23-I-4

Acceptable $\frac{X}{Potentially} \frac{() 2 (X) 3 () 4 ()}{Potentially}$

G Durniak 2/4/83

EVALUATING ENGINEER/DATE

J R Price 4/21/83

CHECKED/DATE

FMEA NUMBER: 23-I-9

Interaction Number(s): I-23-31-11

Fire Zone: 23

Target Component(s)

Number, Description & Function: PM 405 A

Turbine driven auxiliary feedwater pump no. 32 discharge flow control to steam generator no. 31.

Postulated Failure Mode(s) and Evaluation:

C-4-(P)Failure of flow control valve may contribute to a loss of water from the turbine driven pump required for decay heat removal.

/ 1 () 2 (x) 3 () 4 () Acceptable Potentially Unacceptable/Safety Function Affected

G Durniak 2/4/83 EVALUATING ENGINEER/DATE

J R Price . 4/21/83 CHECKED/DATE

FMEA NUMBER: 23-I-10

Interaction Number(s): I-23-32-11

Fire Zone: 23

Target Component(s)

Number, Description & Function: PM 405 B

Turbine driven auxiliary feedwater pump no. 32 discharge flow control to steam generator no. 32.

Postulated Failure Mode(s) and Evaluation:

C-4-(P) See FMEA 23-I-9

X / 1 () 2 (X) 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

Acceptable

G Durniak 2/4/83

EVALUATING ENGINEER/DATE

J R Price 4/21/83

CHECKED/DATE

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

AUXILIARY FEEDWATER SYSTEM

ELECTRICAL

POTENTIALLY UNACCEPTABLE	FME A	EIC	SPAN EVALUATION		
INTERACTION NUMBER	(1) (2)	(1) (2)	(1) (2) (3)		
E-23-14-5	NR	23-003-A	NR		
E-23-15-5	NR	23-003-A	NR		
E-23-16-4	NR	NA	5209-23-050-A		
E-23-17-4	NR	NA	5209-23 - 050-A		
E-23-18-1	NR	NA	5209-23-050-A		
E-23-19-1	NR	NA	5209-23-050-A		
E-23-20-1	NR	NA	5209-23-050-A		
E-23-21-1	NR	NA	5209-23-050-A		
E-23-26-1 (4)	NR	NR	NR		
E-23-26-2	NR	23-002-A	NR		
E-23-26-3 (4)	NR	NR	NR		
E-23-26-6	NR	23-008-A	NR		
E-23-27-1 (4)	NR	NR	NR		
E-23-27-2	NR	23-002-A	NR		
E-23-27-3 (4)	NR	NR	· NR		
E-23-27-6	NR	23-003-A	·NR		
E-23-28-3 (4)	NR	NR	NR		

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} 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

AUXILIARY FEEDWATER SYSTEM

ELECTRICAL

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
E-23-28-6	NR	23-008-A	NR
E-23-29-3 (4)	NR	NR	NR
E-23-29-6	NR	23-008-A	NR
E-23-32-3 (4)	NR	NR	NR
E-23-32-6	NR	23-008-A	NR
E-23-33-4 (4)	NR	NR	NR
E-23-33-5 (4)	NR	NR	NR
E-23-34-4 (4)	NR	NR	NR
E-23-34-5 (4)	NR ·	NR	NR
E-23-35-4 (4)	NR	NR	NR
E-23-37-1 (4)	NR	NR	NR
E-23-37-2 (4)	NR	NR	NR
E-23-37-5	NR	23-001-A	NR
E-23-38-1 (4)	NR	NR	NR
E-23-38-2 (4)	NR	NR	NR
E-23-38-5	NR	23-001-A	NR
E-23-39-2 (4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} 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

AUXILIARY FEEDWATER SYSTEM

ELECTRICAL

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA (1) (2)	EIC (1) (2)	SPAN EVALUATION (1) (2) (3)
E-23-39-5	NR	23-001-A	NR
E-23-41-3 (4)	NR	NR	NR
E-23-41-4 (4)	NR	NR	NR
E-23-42-3 (4)	NR	NR	NR
E-23-42-4 (4)	NR	NR	NR
E-23-43-4 (4)	NR	NR	NR
E-23-45-4 (4)	NR	NR	NR
E-23-46-2 (4)	NR	NR	NR
E-23-46-4	NR	NA	5209-23-050-A
E-23-47-2 (4)	NR	NR	NR
E-23-47-4	NR	NA	5209-23-050-A
E-23-48-2 (4)	NR	NR	NR
E-23-48-4	NR	NA	5209-23-050-A
E-23-49-4	NR	NA	5209-23-050-A
E-23-58-1 (4)	NR	NR	NR
E-23-59-1 (4)	NR	NR	NR

NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.

²⁾ NR - Evaluation is Not Required since interaction is now acceptable.

³⁾ NA - Type of evaluation is not applicable to this interaction.

⁴⁾ Disposed of by repair in AFW pump building.

^{*} Unacceptable by all 3 types of evaluation.

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

SYSTEM	NO	E-23	•		
SYSTEM	NAME	AUXILIARY FEEDWATER			
					
MATRIX	CATEGORY		NON-CONNECTED	Х	
			INTERCONNECTED		

PREPARED BY/DATE

James of the state of the state

	SOURCES																
					1	2	3	4	5								
		Е-2	3	NO INTERACTION	LIGHT	SPEAKER	LIGHT	4" FL DRAIN	TWO 1" CNDS EXH FAN								
ı	,		FCV 405A														
			PM 405A														
		14	3/4" CND TPK (JB)		E319	E319			E320		i						
ı											,				ļ		
۱			FCV 405B														
I		111	PM 405B					-									
	ဂ	15	3/4" CND 7PJ (JB)		E319	E319		:	F320								
	GE1	///						• .									
	TARGE		FCV 405C PM 405C														
		16	3/4" CND JPH (JB)				E321	T221									,
							11721	ردعد									
			FCV 405D														
			PM 405D							,							
		17	3/4" CND 7PI (JB)				E321	E321									
			DING: AUXILIARY ZONE: 2		DWATE	R .			•								
	!	LOC WIT	ATION : ELEV 18'	!-6"						A	UXIL	IARY	FEEI	OWATI	ER		\dashv
	_		SERVICES INCORP	ORA	TED.	POW			ORITY	STA	TE C	OF NE		RK	5209	. 00	3
ı	DIV. ELEC_DR. RS APPROVED INDIAN POINT No. 3 DATE_8/82 CH. SCALE NONE INTERACTION MATRIX SYSTEMS INTERACTION MATRIX SH 4 OF 13																

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SOURCES

AUXILIARY FEEDWATER

SH8 OF 13

POWER AUTHORITY STATE OF NEW YORK 5209.003

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY

INTERACTION MATRIX

Drain

FIRE ZONE: ____

DIV. ELEC DR RS

DATE 8/82 CH. SCALE NONE

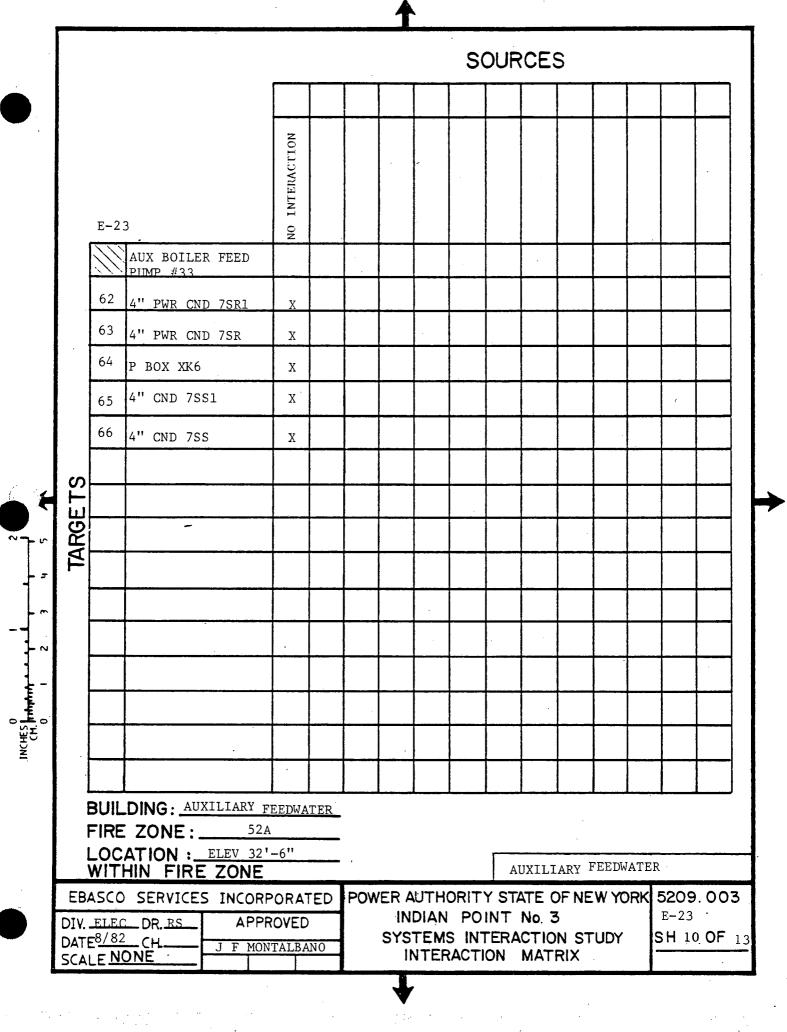
LOCATION : ELEV 18'-6"

EBASCO SERVICES INCORPORATED

APPROVED

J F MONTALBANO

WITHIN FIRE ZONE



1

	SOURCES																	
	E-23	3			NO INTERACTION													
		74	LC-1128 (CND	Х													
I		.75	LT-1128B	CND	Х													
		76	LIC-11028	S CND	Х													
		7.7	LC-1103 (CND	Х		_						·					
		78	LIC-1104S	CND	Х													
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	EBASCO SERVICES INCORPORATED POWER AUTHORITY STATE OF NEW YORK 5209.003 DIV. ELEC DR. RS APPROVED INDIAN POINT No. 3 DATE 8/82 CH J F MONTALBANO INTERACTION STUDY SCALE NONE INTERACTION MATRIX																	

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

NON-CONNECTED INTERACTIONS EVALUATION

- No Interaction Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
 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.la 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.
- Potentially
 Unacceptable Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
- 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

SYSTEM NO.	E-23		
SYSTEM NAME	AUXILIARY FEEDWATER		
			
TIMETAMETON CAR	TCODY.		,
EVALUATION CAT	EGORY	NON-CONNECTED	' X
		INTERCONNECTED	•

Euge dicar 8/30/82
INTERACTION ENGINEER/DATE

WAGniswold 9.30-82 VERIFIED/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-1-1

PHOTOGRAPH NO.:

E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

ABF Pump Motor 31

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-2-1

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Term Box ZV3

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE	POTENTIALLY ——UNACCEPTABLI
E Licari/ 8-30-82	W A Griswold/ 9-30-82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-3-1

PHOTOGRAPH NO.:

E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

4" PWR Cnd 1 MW1

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-4-1

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

4" PWR Cnd 1 MW2

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE	POTENTIALLY
E Licari/ 8-30-82	W A Griswold/ 9-30-82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

INTERACTION ENGINEER/DATE

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

BUILDING:	Auxiliary	Feedwater				
FIRE ZONE:	23					
LOCATION WITHIN FIRE	E ZONE:	EL 18'-6"				
POTENTIAL INTERACTI	ON NO.:	E-23-5-2				
PHOTOGRAPH NO.:	E209					
BACKGROUND NO.:	Sheet	83				
IDENTIFICATION OF I	NTERACTION (COMPONENTS:				
TARGET:	ABF Pump Mo	otor 33			٠	
SOURCE:	Light					
DESCRIPTION OF POST	ULATED INTER	RACTION:				
Source Fall	s on Target		·			
EVALUATION OF INTER	ACTION:					
EVALUATION NOTE	E NO:	3		· •		
		•				
XACC	CEPTABLE					ENTIALLY CCEPTABLE
E Licari/	8-30-82	•	W A G	riswold/		·

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-5-3

PHOTOGRAPH NO.: E209

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

ABF Pump Motor 33

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

INTERACTION ENGINEER / DATE

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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

BUILDING:	Auxiliary Feedwat	er	
FIRE ZONE:	23		•
LOCATION WITHIN FIRE	ZONE: EL 18'	-6"	
POTENTIAL INTERACTIO	N NO.: E-23-6	-2	
PHOTOGRAPH NO.:	E209		
BACKGROUND NO.: S	heet 83		
	·		
IDENTIFICATION OF IN	TERACTION COMPONEN	TS:	
TARGET:	Term Box W88		
SOURCE:	Light		·
DESCRIPTION OF POSTU	LATED INTERACTION:		
Source Falls	on Target		
EVALUATION OF INTERA	CTION:		
EVALUATION NOTE	NO: 3		•
X ACC	EPTABLE		POTENTIALLY
			UNACCEPTABL
E Licari/ 8	-30-82	W A Gr	iswold/ 9-30-82

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-6-3

PHOTOGRAPH NO.: E209

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Term Box W88

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'6"

POTENTIAL INTERACTION NO.: E-23-9-1

PHOTOGRAPH NO.: E210

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7NG

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

VERIFIED/DATE

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-9-3

PHOTOGRAPH NO.:

E317

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7NG

SOURCE:

Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

· X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BU	II	.DI	NG	:

Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-10-1

PHOTOGRAPH NO.:

E210

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7NF

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-10-3

PHOTOGRAPH NO.:

E317

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7NF

SOURCE:

Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-11-2

PHOTOGRAPH NO.:

E266

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PS

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-12-1

PHOTOGRAPH NO.:

Ė318

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7NY

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-13-1

PHOTOGRAPH NO.:

E318

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7NZ

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-14-1

PHOTOGRAPH NO.: E319

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd TPK

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-14-2

PHOTOGRAPH NO.: E319

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd TPK

83

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

Ebasco Services Incorporated -

BUILDING:	Auxiliary	Feedwater
FIRE ZONE:	23	
LOCATION WITHIN FIRE Z	CNE:	EL 18'- 6"
POTENTIAL INTERACTION	NO.:	E-23-14-5
PHOTOGRAPH NO.:	E320	
BACKGROUND NO.: She	eet 83	
· .		
IDENTIFICATION OF INTE	RACTION COM	PONENTS:
TARGET:	3/4" Cnd TP	K
SOURCE:	TWO 1" Cnds	Exh Fan
DESCRIPTION OF POSTULA	TED INTERAC	TION:
Source Falls o	n Target	

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

E Licari/ 8-30-82

INTERACTION ENGINEER/DATE

X

POTENTIALLY
UNACCEPTABLE

W A Griswold/ 9-30-82

VERIFIED/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-15-1

PHOTOGRAPH NO.: E319

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PJ

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-15-2

PHOTOGRAPH NO.: E319

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3/4" Cnd 7PJ

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-15-5

PHOTOGRAPH NO.: E320

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PJ

SOURCE:

TWO 1" Cnds Exh Fan

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-16-3

PHOTOGRAPH NO.:

E321

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PH

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-16-4

PHOTOGRAPH NO.:

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PH

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

Ebasco Services Incorporated

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-17-3

PHOTOGRAPH NO.: E321

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PI

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

Ebasco Services Incorporated

BUILDING:	В	IJ	Ί	Ī	D.	I	N	G	:
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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-17-4

PHOTOGRAPH NO.: E321

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

3/4" Cnd 7PI

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-18-1

PHOTOGRAPH NO.: E322

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1321

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

• E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:	ΒU	ΊI	D.	IN	1G	:
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Auxiliary Feedwater.

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-19-1

PHOTOGRAPH NO.: E322

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnds

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-20-1

PHOTOGRAPH NO.: E322

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX6

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

- E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

В	U	Ι	L	D	I	N	G	:
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Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-21-1

PHOTOGRAPH NO.: E322

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1½" Cnd 7RJ

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

Χ.

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING	G	:
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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-26-1

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1258

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY. -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

Ebasco Services Incorporated

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

. 23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-26-2

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1258

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-26-3

PHOTOGRAPH NO.: E98

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1258

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE E Licari/ 8-30-82 INTERACTION ENGINEER / DATE

POTENTIALLY -UNACCEPTABLE

W A Griswold/ 9-30-82

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-26-6

PHOTOGRAPH NO.:

E98

BACKGROUND NO.: Sheet

8.3

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1258

SOURCE: 12" Line #1070 CST Make-UP

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

POTENTIALLY ACCEPTABLE -UNACCEPTABLE W A Griswold/ 9-30-82

E Licari/ 8-30-82

INTERACTION, ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-27-1

PHOTOGRAPH NO.:

E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnd

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE E Licari/ 8-30-82 W A Griswold/ 9-30-82 INTERACTION ENGINEER/DATE VERIFIED/DATE

Ebasco Services Incorporated

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-27-2

PHOTOGRAPH NO.:

E98

BACKGROUND NO.:

Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnd

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

Ebasco Services Incorporated

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-27-3

PHOTOGRAPH NO.:

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnd

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-27-6

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½" Flex Cnd

SOURCE: 12" Line #1070 CST Make-UP

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

Ebasco Services Incorporated

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-28-1

PHOTOGRAPH NO.:

E98

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX5

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTÁBLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-28-2

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX5

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

POTENTIALLY · X ACCEPTABLE -UNACCEPTABLE E Licari/ 8-30-82 W A Griswold/ 9-30-82 INTERACTION ENGINEER / DATE VERIFIED/DATE .

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-28-3

PHOTOGRAPH NO.:

E98

BACKGROUND NO.:

Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX5

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

7

ACCEPTABLE

X

POTENTIALLY
-UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-28-6

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX5

SOURCE:

12" Line #1070 CST Make-UP

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

POTENTIALLY ACCEPTABLE -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ '9-30-82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-29-1

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd UAD

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X _ACCEPTABLE	POTENTIALLY UNACCEPTABLE				
E Licari/ 8-30-82	W A Griswold/ 9-30-82				
INTERACTION ENGINEER / DATE	VERIFIED/DATE				

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-29-2

PHOTOGRAPH NO.: E98

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

l" Cnd UAD

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-29-3

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd UAD

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

X

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-29-6

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd UAD

SOURCE: 12" Line #1070 CST Make-Up

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

VERIFIED/DATE

Ebasco Services Incorporated

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-32-1

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½ " Cnd TRV

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY ---UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE: 23

LOCATION WITHIN FIRE ZCNE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-32-2

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1坛" Cnd TRV

SOURCE:

Speaker

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:	В	U	Ι	L	D	I	N	G	:	
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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-32-3

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1½" Cnd TRV

SOURCE: Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE	Y POTENTIALLY UNACCEPTABLE
E Licari/ 8-30-82	W A Griswold/ 9-30-82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-32-6

PHOTOGRAPH NO.: E98

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1½" Cnd TRV

SOURCE:

12" Line #1070 CST Make-Up

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE	X POTENTIALLY
E Licari/ 8-30-82	W A Griswold/ 9-30-82
INTERACTION ENGINEER / DATE	VERIFIED/DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-33-4

PHOTOGRAPH NO.: E323

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1289

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-33-5

PHOTOGRAPH NO.: E209

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1289

SOURCE:

`Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

POTENTIALLY ACCEPTABLE -UNACCEPTABLE E Licari/ 8-30-82 W A Griswold/ 9-30-82 INTERACTION ENGINEER / DATE VERIFIED/DATE

Ebasco Services Incorporated

BUILDING: Auxiliary Feedwater

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-34-4

PHOTOGRAPH NO.: E323

BACKGROUND NO.:

Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnds

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY ---UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-34-5

PHOTOGRAPH NO.: E209

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

¹½" Flex Cnds

SOURCE:

Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: EL 18'6"

POTENTIAL INTERACTION NO.: E-23-35-4

PHOTOGRAPH NO.: E323

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX3

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-35-5

PHOTOGRAPH NO.: E209

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX3

SOURCE: Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

INTERACTION ENGINEER / DATE

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

BUILDING:	Auxiliary Feedwater	
FIRE ZONE:	23	
LOCATION WITHIN FIRE	E ZONE: EL 18'-6"	
POTENTIAL INTERACTION	ON NO.: E-23-36-4	
PHOTOGRAPH NO.:	E323	
BACKGROUND NO.:	Sheet 83	
		•
IDENTIFICATION OF IN	NTERACTION COMPONENTS:	
TARGET:	2" Cnd TRQ	
SOURCE:	Electric Heater	
. •		
DESCRIPTION OF POSTU	ULATED INTERACTION:	
Source Falls	s on Target	
EVALUATION OF INTERA	∆ CTTON •	
•		
EVALUATION NOTE	E NO: 4	
Cnd is mou	inted vertically on wall	
XACC	CEPTABLE	POTENTIALLY UNACCEPTABL
E Licari/ 8	8-30-82 W A Griswold	

RUTLI	DING:
FIRE	ZONE:

Auxiliary Feedwater

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-36-5

PHOTOGRAPH NO.:

E209

BACKGROUND NO.:

Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2" Cnd TRQ

SOURCE: Light Fixture

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

XACCEPTABLE	POTENTIALLY
E Licari/ 8-30-82	W A Griswold/ 9-30-82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-37-1

PHOTOGRAPH NO.: E324

BACKGROUND NO.:

Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1287

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-37-2

PHOTOGRAPH NO.:

E324

BACKGROUND NO.:

Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1287

SOURCE:

Electric Heaters

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

В	U	I	D.	ĹΝ	IG	:
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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-37-5

PHOTOGRAPH NO.:

E325

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1287

SOURCE:

2" Station Air Header

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

- 23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-38-1

PHOTOGRAPH NO.: E324

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½" Flex Cnds

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

83

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-38-2

PHOTOGRAPH NO.:

E324

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

'5" Flex Cnds

SOURCE:

Electric Heaters

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

POTENTIALLY ACCEPTABLE -UNACCEPTABLE E Licari/ 8-30-82 W A Griswold/ 9-30-82 INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE: 23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-38-5

PHOTOGRAPH NO.: E325

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½" Flex Cnds

SOURCE: 2" Station Air Header

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

Х

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-39-1

PHOTOGRAPH NO.:

E324

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX1

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING: Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-39-2

PHOTOGRAPH NO.: E324

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX1

SOURCE:

Electric Heaters

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

INTERACTION ENGINEER / DATE

W A Griswold/ 9-30-82

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'- 6"

POTENTIAL INTERACTION NO.:

E-23-39-5

PHOTOGRAPH NO.: E325

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX1

SOURCE:

2" Station Air Header

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

В	U	I	I	D	I	N	G	:	
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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-40-1

PHOTOGRAPH NO.:

E324

BACKGROUND NO.:

Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2" Cnd 7GP

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-40-2

PHOTOGRAPH NO.:

E324

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2" Cnd 7GP

SOURCE:

Electric Heaters

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 4

Cnd mounted vertically on wall

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-40-5

PHOTOGRAPH NO.:

E325

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2" Cnd 7GP

SOURCE:

2" Station Air Header

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-41-3

PHOTOGRAPH NO.:

E326

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1288

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-41-4

PHOTOGRAPH NO.: E326

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1288

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-42-3

PHOTOGRAPH NO.: E326

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnds

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-42-4

PHOTOGRAPH NO.:

E326

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½" Flex Cnds

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

-UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-43-3

PHOTOGRAPH NO.:

E326

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX2

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-43-4

PHOTOGRAPH NO.: E326

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box SX2

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING	٠
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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-44-3

PHOTOGRAPH NO.:

E326

BACKGROUND NO.:

Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

2" Cnd 7RN

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

INTERACTION ENGINEER/DATE

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

		·
BUILDING: A	Auxiliary Feedwater	
FIRE ZONE: 2	23	
LOCATION WITHIN FIRE ZO	CNE: EL 18'-6"	
POTENTIAL INTERACTION 1	NO.: E-23-44-4	
PHOTOGRAPH NO.: É	2326	
BACKGROUND NO.: She	eet 83	
		•
IDENTIFICATION OF INTER	RACTION COMPONENTS:	
TARGET: 2	" Cnd 7RN	
SOURCE: E.	Clectric Heater	
DESCRIPTION OF POSTULAT	TED INTERACTION:	
Source Falls on	n Target	·
EVALUATION OF INTERACT	ION:	
EVALUATION NOTE NO	0: 4	•
. Cnd mounted	against wall vertically	
X ACCEPT	TABLE	POTENTIALLYUNACCEPTABL
E Licari/ 8-30	0-82 W A Criswold/	9-30-82

Ebasco Services Incorporated

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-45-3

PHOTOGRAPH NO.: E326

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1½" Cnd 7RW

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-45-4

PHOTOGRAPH NO.: E326

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½" Cnd 7RW

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

83

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-46-1

PHOTOGRAPH NO.:

E327

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PG

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

·W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-46-2

PHOTOGRAPH NO.: E328

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

I" Cnd 7PG

SOURCE: Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY --UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-46-4

PHOTOGRAPH NO.: E327

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PG

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

POTENTIALLY ACCEPTABLE -UNACCEPTABLE E Licari/ 8-30-82 W A Griswold/ 9-30-82 INTERACTION ENGINEER/DATE VERIFIED/DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-47-1

PHOTOGRAPH NO.:

E327

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

l" Cnd 7PF

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

•		
BUILDING:	Auxiliary	y Feedwater
FIRE ZONE:	23	
LOCATION WITHIN FIRE	ZONE:	EL 18'-6"
POTENTIAL INTERACTION	NO.:	E-23-47-2
PHOTOGRAPH NO.:	E328	
BACKGROUND NO.: SH	neet	83
·		

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PF

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE	Y POTENTIALLY UNACCEPTABLE
E Licari/ 8-30-82	W A Griswold/ 9-30-82
INTERACTION ENGINEER/DATE	VERIFIED/DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-47-4

PHOTOGRAPH NO.:

E327

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PF

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-48-1

PHOTOGRAPH NO.:

E327

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PD

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

EVALUATION NOTE NO:

BUILDING:

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

Auxiliary Feedwater

FIRE ZONE: 23
LOCATION WITHIN FIRE ZCNE: EL 18'-6"
POTENTIAL INTERACTION NO.: E-23-48-4
PHOTOGRAPH NO.: E327
BACKGROUND NO.: Sheet 83
IDENTIFICATION OF INTERACTION COMPONENTS:
TARGET: 1" Cnd 7PD
·
SOURCE: 4" Floor Drain
DESCRIPTION OF POSTULATED INTERACTION:
Source Falls on Target
EVALUATION OF INTERACTION:

ACCEPTABLE

E Licari / 8-30-82

INTERACTION ENGINEER / DATE

X POTENTIALLY
UNACCEPTABLE

W A Griswold / 9-30-82

VERIFIED / DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-49-1

PHOTOGRAPH NO.: E327

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PC

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE E Licari/ 8-30-82

POTENTIALLY -UNACCEPTABLE

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

83

FIRE ZONE:

23 ·

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-49-4

PHOTOGRAPH NO.: E327

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PC

SOURCE:

4" Floor Drain

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-50-3

PHOTOGRAPH NO.: E329

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1½" Cnd 7QD

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-51-3

PHOTOGRAPH NO.: E329

BACKGROUND NO.: Sheet \ 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½" Cnd 7QF

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE VERIFIED/DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-48-2

PHOTOGRAPH NO.: E328

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1" Cnd 7PD

SOURCE:

Electric Heater

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:	В	U	I	I	D	I	N	G	:
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Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-52-3

PHOTOGRAPH NO.: E329

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½" Cnd 7QG

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE		POTENT UNACCE		
E Licari/ 8-30-82	•.	W A Griswold/	9-30-82	•
INTERACTION ENGINEER / DATE		, VERTET	ED/DATE	

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-53-3

PHOTOGRAPH NO.: E329

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

1½" Cnd 7QH

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE E Licari/ 8-30-82 INTERACTION ENGINEER / DATE

POTENTIALLY -UNACCEPTABLE

W A Griswold/ 9-30-82

X ACCEPT	TABLE	•		POTENTIA UNACCEPI	
EVALUATION NOTE NO	D: 3				
EVALUATION OF INTERACT	ION:			·	
Source Falls o	n larget				
		IION:			
DESCRIPTION OF POSTULA	TED INTEDAC	TTON .			
. SOURCE:	Light				
TARGET:	1" Cnd 7RA				
IDENTIFICATION OF INTE	RACTION COM	PONENTS:			
DACKGROUND NO.:	.20				
BACKGROUND NO.: She				ŧ	
PHOTOGRAPH NO.:		1 23 34 3			
POTENTIAL INTERACTION		E-23-54-3			
LOCATION WITHIN FIRE Z		EL 18'-6"			
FIRE ZONE:	23				
BUILDING:	Auxiliary	Feedwater			

W A Griswold/ 9-30-82

VERIFIED/DATE

E Licari/ 8-30-82

INTERACTION ENGINEER/DATE

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Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-'6"

POTENTIAL INTERACTION NO.: E-23-55-3

PHOTOGRAPH NO.: E329

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1" Cnd 7RC

SOURCE:

Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

, X ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

INTERACTION ENGINEER/DATE

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

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BUILDING:	Auxiliary	Feedwater			
FIRE ZONE:	23				
LOCATION WITHIN FI	RE ZONE:	EL 18'-6"			
POTENTIAL INTERACT	TION NO.:	E-23-56-3			
PHOTOGRAPH NO.:	E329				
BACKGROUND NO.:	Sheet	83			
IDENTIFICATION OF	INTERACTION (COMPONENTS:			-
TARGET:	1" Cnd 7RD			•	
SOURCE:	Light		,		
DESCRIPTION OF POS	TULATED INTER	RACTION:			
Source Fal	lls on Target				
EVALUATION OF INTE	RACTION:				
EVALUATION NO	TE NO:	3			
·		•	_		
X A	CCEPTABLE				POTENTIALLY UNACCEPTABLI
E Licari/	8-30-82		W A	Griswold/	,

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Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZCNE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-57-3

PHOTOGRAPH NO.: E329

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1" Cnd 7RG

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE:

EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-58-1

PHOTOGRAPH NO.: E330

BACKGROUND NO.: Sheet

83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

SOV 1139

SOURCE:

Light (not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-59-1

PHOTOGRAPH NO.:

E330

BACKGROUND NO.: Sheet

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

½" Flex Cnds

SOURCE:

Light (not shown)

DESCRIPTION OF ROSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.: E-23-60-1

PHOTOGRAPH NO.:

E330

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET:

Box YG7

SOURCE:

Light

(not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

BUILDING:

Auxiliary Feedwater

FIRE ZONE:

23

LOCATION WITHIN FIRE ZONE: EL 18'-6"

POTENTIAL INTERACTION NO.:

E-23-61-1

PHOTOGRAPH NO.: E330

BACKGROUND NO.: Sheet 83

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½" Cnd 7QU

SOURCE:

Light (not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source Falls on Target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY -UNACCEPTABLE

E Licari/ 8-30-82

W A Griswold/ 9-30-82

INTERACTION ENGINEER / DATE

