

# 1999 Human Factors Information System Report for Plant Docket 247

Combined IR/ER/LER Report  
Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 13			
Percent of total: 3.42			
54-No communication	O-Operations	O-Control Room Ops	50-247/1999001
	O-Operations		
54-No communication	C-Chemistry	T-Testing	50-247/1999001
	C-Chemistry		
53-Communication LT	Z-Other	A-Administrative	50-247/1999002
	Z-Other		
52-Communication un	Z-Other	A-Administrative	50-247/1999003
	Z-Other		
52-Communication un	Z-Other	A-Administrative	50-247/1999006
	Z-Other		
53-Communication LT	O-Operations	M-Maint / Repair	50-247/1999006
	O-Operations		
53-Communication LT	O-Operations	O-Control Room Ops	50-247/1999008
	O-Operations		
53-Communication LT	O-Operations	V-Troubleshooting	50-247/1999008
	O-Operations		
52-Communication un	O-Operations	O-Control Room Ops	50-247/1999008
	O-Operations		
51-Misunderstood /	O-Operations	O-Control Room Ops	50-247/1999008
	O-Operations		
51-Misunderstood /	I-Instrumentation &	T-Testing	50-247/1999009
	I-Instrumentation &		
53-Communication LT	G-Engineering	A-Administrative	50-247/1999009
	G-Engineering		
53-Communication LT	G-Engineering	A-Administrative	50-247/1999009
	G-Engineering		

Communications ER  
Number of items: 0  
Percent of total: 0

Communications LER  
Number of items: 2  
Percent of total: .53

54-No communication	A-Administrative Su	F-Modification	50-247/199901900
	A-Administrative Su		
54-No communication	A-Administrative Su	F-Modification	50-247/199901900
	A-Administrative Su		

Human-System Interface and Environm IR  
Number of items: 8  
Percent of total: 2.11

62-Information orga	O-Operations	B-Bal of Plant Ops	50-247/1998017
62-Information orga	O-Operations	B-Bal of Plant Ops	50-247/1998019
76-Postings LTA	H-Health Physics	H-Health Physics	50-247/1998019
65-Information Cont	O-Operations	O-Control Room Ops	50-247/1999001
62-Information orga	O-Operations	B-Bal of Plant Ops	50-247/1999002
62-Information orga	O-Operations	B-Bal of Plant Ops	50-247/1999002

Page: 1 Date:03/17/2000

Combined IR/ER/LER Report  
Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Human-System Interface and Environm IR			
Number of items: 8			
Percent of Total: 2.11			
76-Postings LTA	H-Health Physics	H-Health Physics	50-247/1999006
76-Postings LTA	T-Training	Z-Other	50-247/1999006

## Human-System Interface and Environm ER

Number of items: 0  
Percent of total: 0

## Human-System Interface and Environm LER

Number of items: 3  
Percent of total: .79

75-Work area LTA	I-Instrumentation & T-Testing	50-247/199900300
67-Function LTA (ac	O-Operations B-Bal of Plant Ops	50-247/199900500
67-Function LTA (ac	E-Electrical C-Calibration	50-247/199901500

## Management and Supervision IR

Number of items: 91  
Percent of total: 23.95

41-Action not begun	W-Work Control / Sc	M-Maint / Repair	50-247/1998017
41-Action not begun	O-Operations	Z-Other	50-247/1998017
40-Individual Corre	O-Operations	Z-Other	50-247/1998017
40-Individual Corre	O-Operations	Z-Other	50-247/1998017
41-Action not begun	O-Operations	Z-Other	50-247/1998017
36-Scheduling and p	M-Mechanical	M-Maint / Repair	50-247/1998017
44-Corrective Actio	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	O-Operations	A-Administrative	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
47-Root Cause LTA	G-Engineering	Z-Other	50-247/1998018
47-Root Cause LTA	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
47-Root Cause LTA	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
43-Operating Experi	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	O-Operations	Z-Other	50-247/1998018
41-Action not begun	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	O-Operations	Z-Other	50-247/1998018
47-Root Cause LTA	O-Operations	Z-Other	50-247/1998018
47-Root Cause LTA	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
47-Root Cause LTA	O-Operations	Z-Other	50-247/1998018
47-Root Cause LTA	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
40-Individual Corre	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	O-Operations	Z-Other	50-247/1998018
44-Corrective Actio	G-Engineering	Z-Other	50-247/1998018
44-Corrective Actio	Q-QA/QC	Z-Other	50-247/1998018
32-Supervision / co	B-Plant Management	Z-Other	50-247/1998018

Page: 2 Date:03/17/2000

## Combined IR/ER/LER Report

Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
---------	------------	-----------	---------------

## Management and Supervision IR

Number of items: 91  
Percent of Total: 23.95

40-Individual Corre	T-Training	Z-Other	50-247/1998019
33-Management expec	I-Instrumentation & S-Surveillance		50-247/1998019
40-Individual Corre	H-Health Physics	Z-Other	50-247/1998019
32-Supervision / co	O-Operations	M-Maint / Repair	50-247/1999001
40-Individual Corre	W-Work Control / Sc	Z-Other	50-247/1999001
40-Individual Corre	W-Work Control / Sc	Z-Other	50-247/1999001
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999001
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999001
36-Scheduling and p	I-Instrumentation & M-Maint / Repair		50-247/1999001
48-Audits or proble	G-Engineering	Z-Other	50-247/1999001
40-Individual Corre	O-Operations	Z-Other	50-247/1999002
36-Scheduling and p	H-Health Physics	H-Health Physics	50-247/1999002
32-Supervision / co	O-Operations	M-Maint / Repair	50-247/1999002
41-Action not begun	I-Instrumentation & Z-Other		50-247/1999002
42-No action planne	I-Instrumentation & Z-Other		50-247/1999002
41-Action not begun	G-Engineering	Z-Other	50-247/1999002
41-Action not begun	G-Engineering	Z-Other	50-247/1999002
40-Individual Corre	C-Chemistry	Z-Other	50-247/1999003
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999006
40-Individual Corre	O-Operations	Z-Other	50-247/1999006

## Human Factors Information System Report

40-Individual Corre	G-Engineering	Z-Other	50-247/1999006
47-Root Cause LTA	O-Operations	Z-Other	50-247/1999006
47-Root Cause LTA	O-Operations	Z-Other	50-247/1999006
41-Action not begun	O-Operations	Z-Other	50-247/1999006
40-Individual Corre	O-Operations	Z-Other	50-247/1999006
32-Supervision / co	O-Operations	M-Maint / Repair	50-247/1999006
40-Individual Corre	O-Operations	Z-Other	50-247/1999006
32-Supervision / co	M-Mechanical	M-Maint / Repair	50-247/1999006
43-Operating Experi	M-Mechanical	M-Maint / Repair	50-247/1999006
40-Individual Corre	Z-Other	Z-Other	50-247/1999006
40-Individual Corre	O-Operations	Z-Other	50-247/1999006
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999006
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999006
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999006
33-Management expec	G-Engineering	G-Design	50-247/1999006
40-Individual Corre	O-Operations	Z-Other	50-247/1999006
32-Supervision / co	H-Health Physics	H-Health Physics	50-247/1999006
32-Supervision / co	O-Operations	F-Modification	50-247/1999007
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999007
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999007
40-Individual Corre	G-Engineering	Z-Other	50-247/1999007
36-Scheduling and p	G-Engineering	G-Design	50-247/1999007
40-Individual Corre	O-Operations	Z-Other	50-247/1999008
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-247/1999008
40-Individual Corre	G-Engineering	Z-Other	50-247/1999008
41-Action not begun	G-Engineering	Z-Other	50-247/1999008
32-Supervision / co	B-Plant Management	O-Control Room Ops	50-247/1999008
33-Management expec	B-Plant Management	O-Control Room Ops	50-247/1999008
40-Individual Corre	O-Operations	Z-Other	50-247/1999009
44-Corrective Actio	I-Instrumentation &	Z-Other	50-247/1999009

Page: 3 Date:03/17/2000

## Combined IR/ER/LER Report

Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380

From 01/01/1999 to 12/31/1999

2x National Average: 226

Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 91			
Percent of Total: 23.95			
41-Action not begun	G-Engineering	Z-Other	50-247/1999009
43-Operating Experi	G-Engineering	Z-Other	50-247/1999009
47-Root Cause LTA	G-Engineering	Z-Other	50-247/1999009
40-Individual Corre	G-Engineering	Z-Other	50-247/1999009
41-Action not begun	M-Mechanical	Z-Other	50-247/1999009
40-Individual Corre	G-Engineering	Z-Other	50-247/1999009
40-Individual Corre	G-Engineering	Z-Other	50-247/1999009
41-Action not begun	G-Engineering	G-Design	50-247/1999009
Management and Supervision ER			
Number of items: 0			
Percent of total: 0			
Management and Supervision LER			
Number of items: 6			
Percent of total: 1.58			
32-Supervision / co	A-Administrative Su	A-Administrative	50-247/199800901
40-Individual Corre	O-Operations	B-Bal of Plant Ops	50-247/199900500
32-Supervision / co	H-Health Physics	H-Health Physics	50-247/199900800
32-Supervision / co	O-Operations	O-Control Room Ops	50-247/199901500
36-Scheduling and p	W-Work Control / Sc	F-Modification	50-247/199901800
32-Supervision / co	A-Administrative Su	F-Modification	50-247/199901900
Organizational Issues IR			
Number of items: 0			
Percent of total: 0			
Organizational Issues ER			
Number of items: 0			
Percent of total: 0			
Organizational Issues LER			
Number of items: 0			
Percent of total: 0			
Procedures and Reference Document IR			
Number of items: 58			
Percent of total: 15.26			

## Human Factors Information System Report

11-No procedure / r	P-Procedure Writers	P-Procedure Dev	50-247/1998017
14-Document develop	P-Procedure Writers	P-Procedure Dev	50-247/1998017
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1998017
12-Procedure techni	G-Engineering	G-Design	50-247/1998017
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1998018
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1998019
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1998019
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1998019
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1998019
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1998019
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1998019
11-No procedure / r	P-Procedure Writers	P-Procedure Dev	50-247/1999001

Page: 4 Date:03/17/2000

## Combined IR/ER/LER Report

Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380

From 01/01/1999 to 12/31/1999

2x National Average: 226

Details	Department	Work Type	Docket/Report
---------	------------	-----------	---------------

## Procedures and Reference Document IR

Number of items: 58

Percent of Total: 15.26

13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999001
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999001
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999001
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999002
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999002
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999002
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999002
12-Procedure techni	G-Engineering	G-Design	50-247/1999002
12-Procedure techni	G-Engineering	G-Design	50-247/1999002
12-Procedure techni	G-Engineering	G-Design	50-247/1999002
12-Procedure techni	G-Engineering	G-Design	50-247/1999002
12-Procedure techni	G-Engineering	G-Design	50-247/1999002
13-Procedure has hu	C-Chemistry	C-Calibration	50-247/1999002
12-Procedure techni	C-Chemistry	P-Procedure Dev	50-247/1999003
13-Procedure has hu	C-Chemistry	P-Procedure Dev	50-247/1999003
12-Procedure techni	G-Engineering	G-Design	50-247/1999003
13-Procedure has hu	C-Chemistry	P-Procedure Dev	50-247/1999003
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999003
12-Procedure techni	G-Engineering	G-Design	50-247/1999006
11-No procedure / r	G-Engineering	G-Design	50-247/1999006
12-Procedure techni	G-Engineering	G-Design	50-247/1999006
12-Procedure techni	G-Engineering	G-Design	50-247/1999006
12-Procedure techni	G-Engineering	G-Design	50-247/1999006
12-Procedure techni	G-Engineering	G-Design	50-247/1999006
12-Procedure techni	H-Health Physics	H-Health Physics	50-247/1999006
13-Procedure has hu	H-Health Physics	H-Health Physics	50-247/1999006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999007
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999007
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999007
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999007
14-Document develop	P-Procedure Writers	P-Procedure Dev	50-247/1999008
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-247/1999008
12-Procedure techni	G-Engineering	G-Design	50-247/1999008
13-Procedure has hu	O-Operations	O-Control Room Ops	50-247/1999008
13-Procedure has hu	O-Operations	A-Administrative	50-247/1999008
13-Procedure has hu	D-Emergency Plannin	D-Emergency Drill	50-247/1999008
11-No procedure / r	G-Engineering	G-Design	50-247/1999008
12-Procedure techni	G-Engineering	G-Design	50-247/1999008
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999009
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999009
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-247/1999009
13-Procedure has hu	C-Chemistry	B-Bal of Plant Ops	50-247/1999009
12-Procedure techni	D-Emergency Plannin	D-Emergency Drill	50-247/1999009
12-Procedure techni	D-Emergency Plannin	D-Emergency Drill	50-247/1999009
12-Procedure techni	D-Emergency Plannin	D-Emergency Drill	50-247/1999009

## Procedures and Reference Document ER

Number of items: 0

Percent of total: 0

## Procedures and Reference Document LER

Number of items: 4

Percent of total: 1.05

12-Procedure techni	O-Operations	B-Bal of Plant Ops	50-247/199900500
---------------------	--------------	--------------------	------------------

Page: 5 Date:03/17/2000

Combined IR/ER/LER Report  
Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Procedures and Reference Document LER			
Number of items: 4			
Percent of Total: 1.05			
12-Procedure techni	I-Instrumentation &	C-Calibration	50-247/199901400
14-Document develop	I-Instrumentation &	C-Calibration	50-247/199901400
11-No procedure / r	E-Electrical	T-Testing	50-247/199901500

Details	Department	Work Type	Docket/Report
Training IR			
Number of items: 16			
Percent of total: 4.21			
02-Training LTA	T-Training	B-Bal of Plant Ops	50-247/1998017
03-Training process	T-Training	Z-Other	50-247/1998017
05-Individual knowl	O-Operations	Z-Other	50-247/1998017
05-Individual knowl	O-Operations	Z-Other	50-247/1998017
02-Training LTA	T-Training	Z-Other	50-247/1998018
06-Simulator fideli	T-Training	Z-Other	50-247/1998019
06-Simulator fideli	T-Training	Z-Other	50-247/1998019
01-No Training	T-Training	C-Calibration	50-247/1999001
05-Individual knowl	O-Operations	S-Surveillance	50-247/1999002
02-Training LTA	T-Training	B-Bal of Plant Ops	50-247/1999006
05-Individual knowl	M-Mechanical	M-Maint / Repair	50-247/1999006
05-Individual knowl	O-Operations	S-Surveillance	50-247/1999007
02-Training LTA	T-Training	Z-Other	50-247/1999008
05-Individual knowl	B-Plant Management	O-Control Room Ops	50-247/1999008
04-Task Qualificati	I-Instrumentation &	T-Testing	50-247/1999009
02-Training LTA	T-Training	D-Emergency Drill	50-247/1999009

Training ER  
Number of items: 0  
Percent of total: 0

Training LER  
Number of items: 0  
Percent of total: 0

Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 174			
Percent of total: 45.79			
86-Work untimely	O-Operations	B-Bal of Plant Ops	50-247/1998017
93-Awareness or att	W-Work Control / Sc	M-Maint / Repair	50-247/1998017
83-Work practice or	W-Work Control / Sc	M-Maint / Repair	50-247/1998017
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-247/1998017
83-Work practice or	E-Electrical	M-Maint / Repair	50-247/1998017
86-Work untimely	Q-QA/QC	Z-Other	50-247/1998017
84-Non-conserv. dec	T-Training	Z-Other	50-247/1998017
83-Work practice or	E-Electrical	S-Surveillance	50-247/1998017
83-Work practice or	E-Electrical	S-Surveillance	50-247/1998017
93-Awareness or att	I-Instrumentation &	S-Surveillance	50-247/1998017
84-Non-conserv. dec	O-Operations	H-Health Physics	50-247/1998017
84-Non-conserv. dec	M-Mechanical	H-Health Physics	50-247/1998017
83-Work practice or	C-Chemistry	B-Bal of Plant Ops	50-247/1998017
83-Work practice or	C-Chemistry	B-Bal of Plant Ops	50-247/1998017
83-Work practice or	C-Chemistry	H-Health Physics	50-247/1998017

Page: 6 Date:03/17/2000

Combined IR/ER/LER Report  
Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 174			
Percent of Total: 45.79			
83-Work practice or	C-Chemistry	H-Health Physics	50-247/1998017
93-Awareness or att	C-Chemistry	B-Bal of Plant Ops	50-247/1998017
93-Awareness or att	O-Operations	A-Administrative	50-247/1998018
94-Log-keeping or r	O-Operations	A-Administrative	50-247/1998018

## Human Factors Information System Report

93-Awareness or att	O-Operations	A-Administrative	50-247/1998018
82-Briefing, prep.	O-Operations	M-Maint / Repair	50-247/1998019
93-Awareness or att	W-Work Control / Sc	M-Maint / Repair	50-247/1998019
88-Tag outs LTA	O-Operations	M-Maint / Repair	50-247/1998019
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-247/1998019
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-247/1998019
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-247/1998019
93-Awareness or att	O-Operations	A-Administrative	50-247/1998019
93-Awareness or att	O-Operations	A-Administrative	50-247/1998019
93-Awareness or att	O-Operations	A-Administrative	50-247/1998019
93-Awareness or att	O-Operations	A-Administrative	50-247/1998019
93-Awareness or att	O-Operations	A-Administrative	50-247/1998019
83-Work practice or	O-Operations	M-Maint / Repair	50-247/1998019
91-Verification / p	O-Operations	M-Maint / Repair	50-247/1998019
82-Briefing, prep.	O-Operations	M-Maint / Repair	50-247/1998019
93-Awareness or att	O-Operations	M-Maint / Repair	50-247/1998019
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-247/1998019
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-247/1998019
93-Awareness or att	O-Operations	O-Control Room Ops	50-247/1999001
94-Log-keeping or r	O-Operations	O-Control Room Ops	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
83-Work practice or	G-Engineering	F-Modification	50-247/1999001
93-Awareness or att	G-Engineering	A-Administrative	50-247/1999001
83-Work practice or	I-Instrumentation &	Z-Other	50-247/1999001
93-Awareness or att	E-Electrical	M-Maint / Repair	50-247/1999001
93-Awareness or att	E-Electrical	M-Maint / Repair	50-247/1999001
82-Briefing, prep.	O-Operations	T-Testing	50-247/1999001
88-Tag outs LTA	O-Operations	M-Maint / Repair	50-247/1999001
81-Work Package Qua	W-Work Control / Sc	M-Maint / Repair	50-247/1999001
83-Work practice or	C-Chemistry	H-Health Physics	50-247/1999001
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-247/1999002
91-Verification / p	O-Operations	H-Health Physics	50-247/1999002
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-247/1999002
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002

Page: 7 Date:03/17/2000

Combined IR/ER/LER Report  
Docket: 50-247 INDIAN POINT 2Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 174			
Percent of Total: 45.79			
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
88-Tag outs LTA	O-Operations	B-Bal of Plant Ops	50-247/1999002
83-Work practice or	O-Operations	F-Modification	50-247/1999002
88-Tag outs LTA	O-Operations	M-Maint / Repair	50-247/1999002
84-Non-conserv. dec	O-Operations	K-Housekeeping	50-247/1999002
82-Briefing, prep.	O-Operations	T-Testing	50-247/1999002
89-Housekeeping LTA	U-Unknown	Q-Fire Protection	50-247/1999002
83-Work practice or	I-Instrumentation &	C-Calibration	50-247/1999002
93-Awareness or att	I-Instrumentation &	S-Surveillance	50-247/1999002
81-Work Package Qua	G-Engineering	G-Design	50-247/1999002
93-Awareness or att	U-Unknown	H-Health Physics	50-247/1999002
93-Awareness or att	U-Unknown	H-Health Physics	50-247/1999002
93-Awareness or att	U-Unknown	H-Health Physics	50-247/1999002
83-Work practice or	C-Chemistry	B-Bal of Plant Ops	50-247/1999002
93-Awareness or att	C-Chemistry	V-Troubleshooting	50-247/1999003
81-Work Package Qua	C-Chemistry	B-Bal of Plant Ops	50-247/1999003
81-Work Package Qua	C-Chemistry	B-Bal of Plant Ops	50-247/1999003
81-Work Package Qua	C-Chemistry	B-Bal of Plant Ops	50-247/1999003
92-Self check LTA	I-Instrumentation &	S-Surveillance	50-247/1999003
81-Work Package Qua	I-Instrumentation &	C-Calibration	50-247/1999003

93-Awareness or att	M-Mechanical	H-Health Physics	50-247/1999003
83-Work practice or	M-Mechanical	M-Maint / Repair	50-247/1999003
83-Work practice or	Z-Other	Z-Other	50-247/1999003
85-Team interaction	O-Operations	M-Maint / Repair	50-247/1999006
85-Team interaction	O-Operations	M-Maint / Repair	50-247/1999006
93-Awareness or att	O-Operations	S-Surveillance	50-247/1999006
83-Work practice or	O-Operations	S-Surveillance	50-247/1999006
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-247/1999006
81-Work Package Qua	G-Engineering	F-Modification	50-247/1999006
89-Housekeeping LTA	O-Operations	K-Housekeeping	50-247/1999006
89-Housekeeping LTA	O-Operations	K-Housekeeping	50-247/1999006
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-247/1999006
81-Work Package Qua	O-Operations	B-Bal of Plant Ops	50-247/1999006
83-Work practice or	M-Mechanical	M-Maint / Repair	50-247/1999006
83-Work practice or	M-Mechanical	M-Maint / Repair	50-247/1999006
93-Awareness or att	G-Engineering	F-Modification	50-247/1999006
93-Awareness or att	G-Engineering	F-Modification	50-247/1999006
84-Non-conserv. dec	W-Work Control / Sc	S-Surveillance	50-247/1999006
93-Awareness or att	I-Instrumentation &	A-Administrative	50-247/1999006
93-Awareness or att	I-Instrumentation &	A-Administrative	50-247/1999006
84-Non-conserv. dec	G-Engineering	F-Modification	50-247/1999006
93-Awareness or att	O-Operations	A-Administrative	50-247/1999006
89-Housekeeping LTA	O-Operations	K-Housekeeping	50-247/1999006
81-Work Package Qua	C-Chemistry	B-Bal of Plant Ops	50-247/1999006
83-Work practice or	C-Chemistry	B-Bal of Plant Ops	50-247/1999006
83-Work practice or	C-Chemistry	B-Bal of Plant Ops	50-247/1999006
81-Work Package Qua	O-Operations	B-Bal of Plant Ops	50-247/1999006
83-Work practice or	Z-Other	Z-Other	50-247/1999006

Page: 8

Date:03/17/2000

Combined IR/ER/LER Report

Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380

From 01/01/1999 to 12/31/1999

2x National Average: 226

Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 174			
Percent of Total: 45.79			
83-Work practice or	U-Unknown	Z-Other	50-247/1999006
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-247/1999007
84-Non-conserv. dec	O-Operations	B-Bal of Plant Ops	50-247/1999007
93-Awareness or att	G-Engineering	F-Modification	50-247/1999007
91-Verification / p	G-Engineering	B-Bal of Plant Ops	50-247/1999007
93-Awareness or att	G-Engineering	A-Administrative	50-247/1999007
86-Work untimely	T-Training	Z-Other	50-247/1999007
84-Non-conserv. dec	H-Health Physics	H-Health Physics	50-247/1999007
82-Briefing, prep.	O-Operations	V-Troubleshooting	50-247/1999008
85-Team interaction	O-Operations	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	G-Engineering	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	G-Engineering	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	W-Work Control / Sc	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	G-Engineering	V-Troubleshooting	50-247/1999008
81-Work Package Qua	G-Engineering	F-Modification	50-247/1999008
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-247/1999008
84-Non-conserv. dec	G-Engineering	B-Bal of Plant Ops	50-247/1999008
84-Non-conserv. dec	G-Engineering	B-Bal of Plant Ops	50-247/1999008
84-Non-conserv. dec	E-Electrical	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-247/1999008
86-Work untimely	G-Engineering	V-Troubleshooting	50-247/1999008
86-Work untimely	G-Engineering	V-Troubleshooting	50-247/1999008
86-Work untimely	O-Operations	V-Troubleshooting	50-247/1999008
86-Work untimely	O-Operations	V-Troubleshooting	50-247/1999008
86-Work untimely	O-Operations	V-Troubleshooting	50-247/1999008
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-247/1999008
83-Work practice or	O-Operations	O-Control Room Ops	50-247/1999008
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-247/1999008
94-Log-keeping or r	O-Operations	O-Control Room Ops	50-247/1999008
94-Log-keeping or r	O-Operations	O-Control Room Ops	50-247/1999008
94-Log-keeping or r	O-Operations	O-Control Room Ops	50-247/1999008
94-Log-keeping or r	O-Operations	B-Bal of Plant Ops	50-247/1999008
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-247/1999008
86-Work untimely	O-Operations	B-Bal of Plant Ops	50-247/1999009
93-Awareness or att	E-Electrical	F-Modification	50-247/1999009
93-Awareness or att	E-Electrical	F-Modification	50-247/1999009
86-Work untimely	O-Operations	O-Control Room Ops	50-247/1999009
84-Non-conserv. dec	G-Engineering	F-Modification	50-247/1999009

## Human Factors Information System Report

86-Work untimely	O-Operations	M-Maint / Repair	50-247/1999009
83-Work practice or	O-Operations	O-Control Room Ops	50-247/1999009
93-Awareness or att	I-Instrumentation &	A-Administrative	50-247/1999009
93-Awareness or att	I-Instrumentation &	T-Testing	50-247/1999009
93-Awareness or att	O-Operations	S-Surveillance	50-247/1999009
83-Work practice or	I-Instrumentation &	V-Troubleshooting	50-247/1999009
85-Team interaction	O-Operations	M-Maint / Repair	50-247/1999009
84-Non-conserv. dec	C-Chemistry	M-Maint / Repair	50-247/1999009
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-247/1999009
93-Awareness or att	G-Engineering	V-Troubleshooting	50-247/1999009

Page: 9                      Date:03/17/2000

Combined IR/ER/LER Report  
Docket: 50-247 INDIAN POINT 2

Total Number of Hits in Date Range: 380  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
---------	------------	-----------	---------------

## Work Factors IR

Number of items: 174

Percent of Total: 45.79

85-Team interaction	O-Operations	V-Troubleshooting	50-247/1999009
93-Awareness or att	O-Operations	A-Administrative	50-247/1999009
93-Awareness or att	O-Operations	A-Administrative	50-247/1999009
84-Non-conserv. dec	G-Engineering	Q-Fire Protection	50-247/1999009
81-Work Package Qua	G-Engineering	G-Design	50-247/1999009
84-Non-conserv. dec	G-Engineering	G-Design	50-247/1999009
84-Non-conserv. dec	G-Engineering	G-Design	50-247/1999009
93-Awareness or att	E-Electrical	M-Maint / Repair	50-247/1999009
84-Non-conserv. dec	C-Chemistry	B-Bal of Plant Ops	50-247/1999009

## Work Factors ER

Number of items: 0

Percent of total: 0

## Work Factors LER

Number of items: 5

Percent of total: 1.32

83-Work practice or	I-Instrumentation &	T-Testing	50-247/199900300
92-Self check LTA	I-Instrumentation &	G-Design	50-247/199900900
92-Self check LTA	G-Engineering	G-Design	50-247/199901000
85-Team interaction	W-Work Control / Sc	F-Modification	50-247/199901800
85-Team interaction	E-Electrical	F-Modification	50-247/199901800

Page: 10                      Date:03/17/2000

**[End of File for Plant Docket 247 (1999)]**

---