

# 1998 Human Factors Information System Report for Plant Docket 272

Combined IR/ER/LER Report  
Docket: 50-272 SALEM 1

Total Number of Hits in Date Range: 184  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 6			
Percent of total: 3.26			
52-Communication un	O-Operations	O-Control Room Ops	50-272/1997021
	O-Operations		
53-Communication LT	O-Operations	O-Control Room Ops	50-272/1998001
	O-Operations		
55-Communication Eq	D-Emergency Plannin	D-Emergency Drill	50-272/1998003
	D-Emergency Plannin		
53-Communication LT	W-Work Control / Sc	M-Maint / Repair	50-272/1998003
	W-Work Control / Sc		
55-Communication Eq	D-Emergency Plannin	D-Emergency Drill	50-272/1998006
	D-Emergency Plannin		
53-Communication LT	G-Engineering	A-Administrative	50-272/1998081
	G-Engineering		
	G-Engineering		
Communications ER			
Number of items: 0			
Percent of total: 0			
Communications LER			
Number of items: 2			
Percent of total: 1.09			
54-No communication	O-Operations	O-Control Room Ops	50-272/199800600
	O-Operations		
54-No communication	G-Engineering	F-Modification	50-311/199800601
	G-Engineering		
Human-System Interface and Environm IR			
Number of items: 3			
Percent of total: 1.63			
76-Postings LTA	H-Health Physics	H-Health Physics	50-272/1997021
76-Postings LTA	H-Health Physics	H-Health Physics	50-272/1997021
61-Labels LTA	O-Operations	B-Bal of Plant Ops	50-272/1998005
Human-System Interface and Environm ER			
Number of items: 0			
Percent of total: 0			
Human-System Interface and Environm LER			
Number of items: 2			
Percent of total: 1.09			
61-Labels LTA	I-Instrumentation & Z-Other		50-272/199800501
66-HSI does not exi	P-Procedure Writers	P-Procedure Dev	50-272/199800700
Management and Supervision IR			
Number of items: 31			
Percent of total: 16.85			
40-Individual Corre	G-Engineering	Z-Other	50-272/1997021
41-Action not begun	E-Electrical	Z-Other	50-272/1998001
Page: 1	Date:01/13/1999		

Combined IR/ER/LER Report  
Docket: 50-272 SALEM 1

Total Number of Hits in Date Range: 184  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 31			
Percent of Total: 16.85			
42-No action planne	O-Operations	Z-Other	50-272/1998001
32-Supervision / co	G-Engineering	G-Design	50-272/1998001

## Human Factors Information System Report

40-Individual Corre	G-Engineering	Z-Other	50-272/1998001
32-Supervision / co	M-Mechanical	M-Maint / Repair	50-272/1998003
32-Supervision / co	M-Mechanical	M-Maint / Repair	50-272/1998003
41-Action not begun	D-Emergency Plannin	D-Emergency Drill	50-272/1998003
40-Individual Corre	G-Engineering	Z-Other	50-272/1998005
32-Supervision / co	C-Chemistry	B-Bal of Plant Ops	50-272/1998005
48-Audits or proble	O-Operations	Z-Other	50-272/1998006
40-Individual Corre	M-Mechanical	Z-Other	50-272/1998006
40-Individual Corre	E-Electrical	Z-Other	50-272/1998008
40-Individual Corre	E-Electrical	Z-Other	50-272/1998008
40-Individual Corre	E-Electrical	Z-Other	50-272/1998008
40-Individual Corre	E-Electrical	Z-Other	50-272/1998008
40-Individual Corre	E-Electrical	Z-Other	50-272/1998008
32-Supervision / co	G-Engineering	G-Design	50-272/1998008
33-Management expec	B-Plant Management	Z-Other	50-272/1998081
44-Corrective Actio	G-Engineering	Z-Other	50-272/1998081
32-Supervision / co	G-Engineering	Z-Other	50-272/1998081
44-Corrective Actio	G-Engineering	Z-Other	50-272/1998081
44-Corrective Actio	G-Engineering	Z-Other	50-272/1998081
44-Corrective Actio	G-Engineering	Z-Other	50-272/1998081
44-Corrective Actio	G-Engineering	Z-Other	50-272/1998081
48-Audits or proble	Q-QA/QC	Z-Other	50-272/1998081
40-Individual Corre	G-Engineering	Z-Other	50-272/1998081
33-Management expec	M-Mechanical	K-Housekeeping	50-272/1998081
41-Action not begun	G-Engineering	G-Design	50-272/1998081
44-Corrective Actio	G-Engineering	Z-Other	50-272/1998081
40-Individual Corre	G-Engineering	Z-Other	50-272/1998081

## Management and Supervision ER

Number of items: 0  
Percent of total: 0

## Management and Supervision LER

Number of items: 6  
Percent of total: 3.26

40-Individual Corre	G-Engineering	G-Design	50-272/199800401
40-Individual Corre	H-Health Physics	P-Procedure Dev	50-272/199800401
48-Audits or proble	H-Health Physics	Z-Other	50-272/199800401
32-Supervision / co	B-Plant Management	A-Administrative	50-272/199800401
36-Scheduling and p	I-Instrumentation &	M-Maint / Repair	50-272/199800501
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-272/199800501

## Organizational Issues IR

Number of items: 5  
Percent of total: 2.72

22-Poor Task Alloca	I-Instrumentation &	C-Calibration	50-272/1998003
21-Staffing LTA	I-Instrumentation &	M-Maint / Repair	50-272/1998003
22-Poor Task Alloca	G-Engineering	G-Design	50-272/1998081

Page: 2 Date:01/13/1999

## Combined IR/ER/LER Report

Docket: 50-272 SALEM 1

Total Number of Hits in Date Range: 184  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

Details	Department	Work Type	Docket/Report
Organizational Issues IR			
Number of items: 5			
Percent of Total: 2.72			
21-Staffing LTA	O-Operations	A-Administrative	50-272/1998081
21-Staffing LTA	G-Engineering	M-Maint / Repair	50-272/1998081

## 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: 14  
Percent of total: 7.61

12-Procedure techni	G-Engineering	G-Design	50-272/1997021
12-Procedure techni	G-Engineering	G-Design	50-272/1997021
11-No procedure / r	H-Health Physics	H-Health Physics	50-272/1997021
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-272/1998003
14-Document develop	D-Emergency Plannin	P-Procedure Dev	50-272/1998003
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-272/1998005

12-Procedure techni	G-Engineering	G-Design	50-272/1998005
11-No procedure / r	H-Health Physics	H-Health Physics	50-272/1998005
12-Procedure techni	H-Health Physics	H-Health Physics	50-272/1998005
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-272/1998006
13-Procedure has hu	G-Engineering	G-Design	50-272/1998007
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-272/1998008
12-Procedure techni	G-Engineering	G-Design	50-272/1998081
12-Procedure techni	G-Engineering	G-Design	50-272/1998081

Procedures and Reference Document ER  
 Number of items: 0  
 Percent of total: 0

Procedures and Reference Document LER  
 Number of items: 5  
 Percent of total: 2.72

14-Document develop	I-Instrumentation &	T-Testing	50-272/199800300
12-Procedure techni	C-Chemistry	H-Health Physics	50-272/199800401
14-Document develop	B-Plant Management	A-Administrative	50-272/199800401
12-Procedure techni	O-Operations	B-Bal of Plant Ops	50-272/199801200
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-272/199801300

#### Training IR

Number of items: 6  
 Percent of total: 3.26

02-Training LTA	T-Training	H-Health Physics	50-272/1997021
02-Training LTA	T-Training	H-Health Physics	50-272/1997021
05-Individual knowl	D-Emergency Plannin	D-Emergency Drill	50-272/1997021
05-Individual knowl	C-Chemistry	B-Bal of Plant Ops	50-272/1998003
02-Training LTA	T-Training	Z-Other	50-272/1998008

Page: 3 Date:01/13/1999

Combined IR/ER/LER Report  
 Docket: 50-272 SALEM 1

Total Number of Hits in Date Range: 184  
 From 01/01/1998 to 12/31/1998  
 2x National Average: 255

Details	Department	Work Type	Docket/Report
Training IR			
Number of items: 6			
Percent of Total: 3.26			
05-Individual knowl	O-Operations	Z-Other	50-272/1998081
Training ER			
Number of items: 1			
Percent of total: .54			
02-Training LTA	T-Training	Z-Other	50-272/1998302
Training LER			
Number of items: 6			
Percent of total: 3.26			
02-Training LTA	E-Electrical	P-Procedure Dev	50-272/199800401
02-Training LTA	O-Operations	T-Testing	50-272/199800501
02-Training LTA	O-Operations	T-Testing	50-272/199800501
02-Training LTA	M-Mechanical	M-Maint / Repair	50-272/199800501
05-Individual knowl	O-Operations	M-Maint / Repair	50-272/199801300
02-Training LTA	T-Training	M-Maint / Repair	50-272/199801300

#### Work Factors IR

Number of items: 75  
 Percent of total: 40.76

83-Work practice or	G-Engineering	T-Testing	50-272/1997021
83-Work practice or	G-Engineering	T-Testing	50-272/1997021
83-Work practice or	G-Engineering	T-Testing	50-272/1997021
83-Work practice or	G-Engineering	T-Testing	50-272/1997021
83-Work practice or	G-Engineering	G-Design	50-272/1997021
81-Work Package Qua	G-Engineering	G-Design	50-272/1997021
85-Team interaction	H-Health Physics	M-Maint / Repair	50-272/1997021
81-Work Package Qua	Q-QA/QC	Z-Other	50-272/1997021
83-Work practice or	H-Health Physics	A-Administrative	50-272/1997021
83-Work practice or	G-Engineering	H-Health Physics	50-272/1997021
91-Verification / p	D-Emergency Plannin	D-Emergency Drill	50-272/1997021
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/1998001
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/1998001
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/1998001
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-272/1998001
83-Work practice or	O-Operations	O-Control Room Ops	50-272/1998001
81-Work Package Qua	W-Work Control / Sc	M-Maint / Repair	50-272/1998001
91-Verification / p	E-Electrical	M-Maint / Repair	50-272/1998001

## Human Factors Information System Report

83-Work practice or	E-Electrical	M-Maint / Repair	50-272/1998001
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-272/1998001
85-Team interaction	O-Operations	Z-Other	50-272/1998001
85-Team interaction	G-Engineering	O-Control Room Ops	50-272/1998003
83-Work practice or	G-Engineering	O-Control Room Ops	50-272/1998003
85-Team interaction	G-Engineering	T-Testing	50-272/1998003
85-Team interaction	O-Operations	T-Testing	50-272/1998003
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-272/1998003
84-Non-conserv. dec	M-Mechanical	M-Maint / Repair	50-272/1998003
88-Tag outs LTA	I-Instrumentation &	M-Maint / Repair	50-272/1998003
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-272/1998003
84-Non-conserv. dec	G-Engineering	T-Testing	50-272/1998004

Page: 4 Date:01/13/1999

Combined IR/ER/LER Report  
Docket: 50-272 SALEM 1Total Number of Hits in Date Range: 184  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

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

## Work Factors IR

Number of items: 75

Percent of Total: 40.76

83-Work practice or	G-Engineering	G-Design	50-272/1998004
83-Work practice or	G-Engineering	G-Design	50-272/1998004
83-Work practice or	G-Engineering	G-Design	50-272/1998004
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-272/1998005
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-272/1998005
83-Work practice or	M-Mechanical	M-Maint / Repair	50-272/1998005
89-Housekeeping LTA	E-Electrical	M-Maint / Repair	50-272/1998005
93-Awareness or att	E-Electrical	M-Maint / Repair	50-272/1998005
82-Briefing, prep.	O-Operations	M-Maint / Repair	50-272/1998005
94-Log-keeping or r	O-Operations	A-Administrative	50-272/1998005
83-Work practice or	G-Engineering	M-Maint / Repair	50-272/1998005
83-Work practice or	G-Engineering	G-Design	50-272/1998005
86-Work untimely	G-Engineering	A-Administrative	50-272/1998005
93-Awareness or att	A-Administrative Su	A-Administrative	50-272/1998005
93-Awareness or att	Z-Other	Z-Other	50-272/1998005
84-Non-conserv. dec	B-Plant Management	A-Administrative	50-272/1998005
82-Briefing, prep.	O-Operations	B-Bal of Plant Ops	50-272/1998006
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-272/1998006
86-Work untimely	O-Operations	A-Administrative	50-272/1998006
88-Tag outs LTA	W-Work Control / Sc	M-Maint / Repair	50-272/1998006
88-Tag outs LTA	O-Operations	M-Maint / Repair	50-272/1998006
88-Tag outs LTA	M-Mechanical	M-Maint / Repair	50-272/1998006
88-Tag outs LTA	M-Mechanical	M-Maint / Repair	50-272/1998006
86-Work untimely	G-Engineering	A-Administrative	50-272/1998006
93-Awareness or att	G-Engineering	A-Administrative	50-272/1998006
93-Awareness or att	G-Engineering	F-Modification	50-272/1998006
93-Awareness or att	G-Engineering	F-Modification	50-272/1998006
81-Work Package Qua	G-Engineering	F-Modification	50-272/1998006
81-Work Package Qua	G-Engineering	G-Design	50-272/1998007
83-Work practice or	T-Training	Z-Other	50-272/1998008
85-Team interaction	P-Procedure Writers	S-Surveillance	50-272/1998008
83-Work practice or	I-Instrumentation &	S-Surveillance	50-272/1998008
84-Non-conserv. dec	I-Instrumentation &	S-Surveillance	50-272/1998008
83-Work practice or	G-Engineering	G-Design	50-272/1998008
83-Work practice or	G-Engineering	G-Design	50-272/1998008
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/1998008
91-Verification / p	G-Engineering	G-Design	50-272/1998008
83-Work practice or	I-Instrumentation &	C-Calibration	50-272/1998008
84-Non-conserv. dec	G-Engineering	Z-Other	50-272/1998081
83-Work practice or	G-Engineering	A-Administrative	50-272/1998081
83-Work practice or	O-Operations	A-Administrative	50-272/1998081
83-Work practice or	O-Operations	A-Administrative	50-272/1998081
83-Work practice or	G-Engineering	A-Administrative	50-272/1998081
86-Work untimely	G-Engineering	A-Administrative	50-272/1998081
83-Work practice or	G-Engineering	A-Administrative	50-272/1998081

## Work Factors ER

Number of items: 4

Percent of total: 2.17

81-Work Package Qua	T-Training	Z-Other	50-272/1998302
---------------------	------------	---------	----------------

Page: 5 Date:01/13/1999

Combined IR/ER/LER Report  
Docket: 50-272 SALEM 1

Total Number of Hits in Date Range: 184  
 From 01/01/1998 to 12/31/1998  
 2x National Average: 255

Details	Department	Work Type	Docket/Report
Work Factors ER			
Number of items: 4			
Percent of Total: 2.17			
83-Work practice or	T-Training	Z-Other	50-272/1998302
83-Work practice or	T-Training	Z-Other	50-272/1998302
93-Awareness or att	T-Training	Z-Other	50-272/1998302
Work Factors LER			
Number of items: 18			
Percent of total: 9.78			
83-Work practice or	G-Engineering	G-Design	50-272/199800401
91-Verification / p	O-Operations	T-Testing	50-272/199800501
83-Work practice or	I-Instrumentation &	M-Maint / Repair	50-272/199800501
83-Work practice or	W-Work Control / Sc	M-Maint / Repair	50-272/199800501
83-Work practice or	O-Operations	T-Testing	50-272/199800501
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/199800600
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/199800600
93-Awareness or att	O-Operations	O-Control Room Ops	50-272/199800600
85-Team interaction	O-Operations	O-Control Room Ops	50-272/199800600
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-272/199800600
83-Work practice or	M-Mechanical	F-Modification	50-272/199800800
83-Work practice or	M-Mechanical	P-Procedure Dev	50-272/199800900
83-Work practice or	G-Engineering	P-Procedure Dev	50-272/199801100
92-Self check LTA	P-Procedure Writers	P-Procedure Dev	50-272/199801200
82-Briefing, prep.	O-Operations	B-Bal of Plant Ops	50-272/199801200
82-Briefing, prep.	M-Mechanical	M-Maint / Repair	50-272/199801300
81-Work Package Qua	G-Engineering	F-Modification	50-311/199800601
84-Non-conserv. dec	I-Instrumentation &	F-Modification	50-311/199800601
Page: 6	Date: 01/13/1999		

[End of File for Plant Docket 272 (1998)]