

1998 Human Factors Information System Report for Plant Docket 341

Combined IR/ER/LER Report
Docket: 50-341 FERMI 2

Total Number of Hits in Date Range: 232
From 01/01/1998 to 12/31/1998
2x National Average: 255

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 7			
Percent of total: 3.02			
53-Communication	LT O-Operations	M-Maint / Repair	50-341/1997016
	O-Operations		
53-Communication	LT E-Electrical	M-Maint / Repair	50-341/1997016
	E-Electrical		
53-Communication	LT O-Operations	O-Control Room Ops	50-341/1997017
	O-Operations		
53-Communication	LT O-Operations	T-Testing	50-341/1998003
	O-Operations		
53-Communication	LT F-Fuel Handling	R-Refueling	50-341/1998004
	F-Fuel Handling		
52-Communication	un D-Emergency Plannin	D-Emergency Drill	50-341/1998008
	D-Emergency Plannin		
53-Communication	LT C-Chemistry	B-Bal of Plant Ops	50-341/1998012
	C-Chemistry		

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

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

Human-System Interface and Environm IR

Number of items: 8
Percent of total: 3.45

75-Work area	LTA O-Operations	V-Troubleshooting	50-341/1997014
73-Excessive Noise	O-Operations	V-Troubleshooting	50-341/1997014
61-Labels	LTA O-Operations	M-Maint / Repair	50-341/1997016
76-Postings	LTA H-Health Physics	A-Administrative	50-341/1997016
76-Postings	LTA H-Health Physics	H-Health Physics	50-341/1997016
61-Labels	LTA O-Operations	O-Control Room Ops	50-341/1998006
73-Excessive Noise	D-Emergency Plannin	D-Emergency Drill	50-341/1998008
61-Labels	LTA O-Operations	B-Bal of Plant Ops	50-341/1998012

Human-System Interface and Environm ER

Number of items: 0
Percent of total: 0

Human-System Interface and Environm LER

Number of items: 1
Percent of total: .43

61-Labels	LTA E-Electrical	S-Surveillance	50-341/199800200
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Management and Supervision IR

Number of items: 19
Percent of total: 8.19

33-Management	expec O-Operations	A-Administrative	50-341/1997014
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Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 19			
Percent of Total: 8.19			
32-Supervision / co	O-Operations	T-Testing	50-341/1997014
40-Individual Corre	G-Engineering	Z-Other	50-341/1997014

33-Management expect	O-Operations	B-Bal of Plant Ops	50-341/1997016
43-Operating Experi	G-Engineering	Z-Other	50-341/1997016
32-Supervision / co	O-Operations	O-Control Room Ops	50-341/1997017
32-Supervision / co	O-Operations	Z-Other	50-341/1997017
40-Individual Corre	O-Operations	Z-Other	50-341/1998003
36-Scheduling and p	I-Instrumentation &	C-Calibration	50-341/1998003
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-341/1998003
32-Supervision / co	O-Operations	R-Refueling	50-341/1998004
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-341/1998006
32-Supervision / co	G-Engineering	C-Calibration	50-341/1998006
40-Individual Corre	G-Engineering	Z-Other	50-341/1998006
44-Corrective Actio	G-Engineering	Z-Other	50-341/1998006
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-341/1998008
32-Supervision / co	O-Operations	S-Surveillance	50-341/1998012
40-Individual Corre	O-Operations	Z-Other	50-341/1998012
36-Scheduling and p	W-Work Control / Sc	S-Surveillance	50-341/1998013

Management and Supervision ER

Number of items: 3

Percent of total: 1.29

32-Supervision / co	O-Operations	Z-Other	50-341/1998301
32-Supervision / co	O-Operations	Z-Other	50-341/1998301
32-Supervision / co	O-Operations	Z-Other	50-341/1998301

Management and Supervision LER

Number of items: 0

Percent of total: 0

Organizational Issues IR

Number of items: 2

Percent of total: .86

22-Poor Task Alloca	G-Engineering	R-Refueling	50-341/1998004
22-Poor Task Alloca	O-Operations	Z-Other	50-341/1998008

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: 32

Percent of total: 13.79

13-Procedure has hu	G-Engineering	G-Design	50-341/1997014
12-Procedure techni	G-Engineering	G-Design	50-341/1997014
12-Procedure techni	G-Engineering	G-Design	50-341/1997014

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Details	Department	Work Type	Docket/Report
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Procedures and Reference Document IR

Number of items: 32

Percent of Total: 13.79

11-No procedure / r	G-Engineering	G-Design	50-341/1997016
13-Procedure has hu	G-Engineering	G-Design	50-341/1997016
11-No procedure / r	G-Engineering	G-Design	50-341/1997016
12-Procedure techni	G-Engineering	G-Design	50-341/1997016
12-Procedure techni	T-Training	Z-Other	50-341/1997017
13-Procedure has hu	G-Engineering	G-Design	50-341/1998002
13-Procedure has hu	G-Engineering	G-Design	50-341/1998002
12-Procedure techni	G-Engineering	G-Design	50-341/1998002
12-Procedure techni	G-Engineering	G-Design	50-341/1998003
12-Procedure techni	G-Engineering	G-Design	50-341/1998003
12-Procedure techni	G-Engineering	G-Design	50-341/1998003
12-Procedure techni	G-Engineering	G-Design	50-341/1998005
12-Procedure techni	G-Engineering	G-Design	50-341/1998005
12-Procedure techni	G-Engineering	G-Design	50-341/1998005
13-Procedure has hu	G-Engineering	G-Design	50-341/1998006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998006
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-341/1998006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998008
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998008
13-Procedure has hu	G-Engineering	G-Design	50-341/1998008

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13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998012
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998012
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998012
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-341/1998012
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-341/1998012
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998012
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998012
11-No procedure / r	Z-Other	Z-Other	50-341/1998012
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998013

Procedures and Reference Document ER

Number of items: 6

Percent of total: 2.59

13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998301
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998301
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998301
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998301
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1998301
14-Document develop	P-Procedure Writers	P-Procedure Dev	50-341/1998301

Procedures and Reference Document LER

Number of items: 3

Percent of total: 1.29

13-Procedure has hu	E-Electrical	S-Surveillance	50-341/199800200
14-Document develop	E-Electrical	S-Surveillance	50-341/199800200
14-Document develop	P-Procedure Writers	P-Procedure Dev	50-341/199800301

Training IR

Number of items: 19

Percent of total: 8.19

01-No Training	T-Training	O-Control Room Ops	50-341/1997016
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Training IR

Number of items: 19

Percent of Total: 8.19

05-Individual knowl	O-Operations	M-Maint / Repair	50-341/1997016
02-Training LTA	T-Training	C-Calibration	50-341/1997016
02-Training LTA	T-Training	S-Surveillance	50-341/1997016
05-Individual knowl	O-Operations	Z-Other	50-341/1997017
03-Training process	T-Training	Z-Other	50-341/1997017
06-Simulator fideli	T-Training	Z-Other	50-341/1997017
03-Training process	T-Training	Z-Other	50-341/1997017
03-Training process	T-Training	Z-Other	50-341/1997017
01-No Training	T-Training	D-Emergency Drill	50-341/1998003
01-No Training	T-Training	D-Emergency Drill	50-341/1998003
05-Individual knowl	G-Engineering	R-Refueling	50-341/1998004
01-No Training	T-Training	O-Control Room Ops	50-341/1998008
05-Individual knowl	O-Operations	O-Control Room Ops	50-341/1998012
02-Training LTA	T-Training	B-Bal of Plant Ops	50-341/1998012
02-Training LTA	T-Training	Z-Other	50-341/1998012
02-Training LTA	T-Training	Z-Other	50-341/1998012
05-Individual knowl	O-Operations	Q-Fire Protection	50-341/1998013
05-Individual knowl	O-Operations	Q-Fire Protection	50-341/1998013

Training ER

Number of items: 15

Percent of total: 6.47

06-Simulator fideli	T-Training	Z-Other	50-341/1998301
06-Simulator fideli	T-Training	Z-Other	50-341/1998301
06-Simulator fideli	T-Training	Z-Other	50-341/1998301
05-Individual knowl	O-Operations	Z-Other	50-341/1998301
05-Individual knowl	O-Operations	Z-Other	50-341/1998301
05-Individual knowl	O-Operations	Z-Other	50-341/1998301
05-Individual knowl	O-Operations	Z-Other	50-341/1998301
05-Individual knowl	O-Operations	Z-Other	50-341/1998301
02-Training LTA	T-Training	Z-Other	50-341/1998301
02-Training LTA	T-Training	Z-Other	50-341/1998301
05-Individual knowl	O-Operations	Z-Other	50-341/1998301
02-Training LTA	T-Training	Z-Other	50-341/1998301
02-Training LTA	T-Training	T-Testing	50-341/1998301
02-Training LTA	T-Training	T-Testing	50-341/1998301
03-Training process	T-Training	T-Testing	50-341/1998301

Training LER

Number of items: 0
Percent of total: 0

Work Factors IR

Number of items: 91
Percent of total: 39.22

94-Log-keeping or r	O-Operations	O-Control Room Ops	50-341/1997014
94-Log-keeping or r	O-Operations	O-Control Room Ops	50-341/1997014
93-Awareness or att	O-Operations	F-Modification	50-341/1997014
93-Awareness or att	O-Operations	T-Testing	50-341/1997014
93-Awareness or att	O-Operations	S-Surveillance	50-341/1997014

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Details	Department	Work Type	Docket/Report
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Work Factors IR

Number of items: 91
Percent of Total: 39.22

85-Team interaction	E-Electrical	M-Maint / Repair	50-341/1997014
83-Work practice or	G-Engineering	T-Testing	50-341/1997014
81-Work Package Qua	G-Engineering	G-Design	50-341/1997014
93-Awareness or att	O-Operations	M-Maint / Repair	50-341/1997016
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-341/1997016
92-Self check LTA	E-Electrical	T-Testing	50-341/1997016
82-Briefing, prep.	E-Electrical	T-Testing	50-341/1997016
83-Work practice or	M-Mechanical	S-Surveillance	50-341/1997016
84-Non-conserv. dec	M-Mechanical	S-Surveillance	50-341/1997016
81-Work Package Qua	G-Engineering	G-Design	50-341/1997016
83-Work practice or	U-Unknown	H-Health Physics	50-341/1997016
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-341/1997016
82-Briefing, prep.	O-Operations	Z-Other	50-341/1997017
83-Work practice or	O-Operations	Z-Other	50-341/1997017
83-Work practice or	O-Operations	Z-Other	50-341/1997017
81-Work Package Qua	T-Training	Z-Other	50-341/1997017
83-Work practice or	T-Training	A-Administrative	50-341/1997017
81-Work Package Qua	T-Training	Z-Other	50-341/1997017
81-Work Package Qua	G-Engineering	G-Design	50-341/1998002
81-Work Package Qua	G-Engineering	G-Design	50-341/1998002
81-Work Package Qua	G-Engineering	G-Design	50-341/1998002
81-Work Package Qua	G-Engineering	G-Design	50-341/1998002
84-Non-conserv. dec	G-Engineering	G-Design	50-341/1998002
81-Work Package Qua	G-Engineering	G-Design	50-341/1998002
83-Work practice or	G-Engineering	G-Design	50-341/1998002
83-Work practice or	G-Engineering	M-Maint / Repair	50-341/1998002
84-Non-conserv. dec	G-Engineering	M-Maint / Repair	50-341/1998002
84-Non-conserv. dec	G-Engineering	A-Administrative	50-341/1998002
83-Work practice or	G-Engineering	A-Administrative	50-341/1998002
83-Work practice or	G-Engineering	G-Design	50-341/1998002
83-Work practice or	G-Engineering	G-Design	50-341/1998002
92-Self check LTA	O-Operations	T-Testing	50-341/1998003
83-Work practice or	I-Instrumentation &	M-Maint / Repair	50-341/1998003
81-Work Package Qua	W-Work Control / Sc	S-Surveillance	50-341/1998003
84-Non-conserv. dec	I-Instrumentation &	S-Surveillance	50-341/1998003
94-Log-keeping or r	O-Operations	R-Refueling	50-341/1998004
94-Log-keeping or r	G-Engineering	R-Refueling	50-341/1998004
81-Work Package Qua	W-Work Control / Sc	R-Refueling	50-341/1998004
94-Log-keeping or r	F-Fuel Handling	R-Refueling	50-341/1998004
83-Work practice or	G-Engineering	A-Administrative	50-341/1998004
81-Work Package Qua	G-Engineering	R-Refueling	50-341/1998004
84-Non-conserv. dec	G-Engineering	R-Refueling	50-341/1998004
81-Work Package Qua	W-Work Control / Sc	R-Refueling	50-341/1998004
84-Non-conserv. dec	O-Operations	R-Refueling	50-341/1998004
81-Work Package Qua	W-Work Control / Sc	R-Refueling	50-341/1998004
84-Non-conserv. dec	G-Engineering	R-Refueling	50-341/1998004
83-Work practice or	G-Engineering	R-Refueling	50-341/1998004
81-Work Package Qua	G-Engineering	F-Modification	50-341/1998004
83-Work practice or	G-Engineering	F-Modification	50-341/1998005
93-Awareness or att	D-Emergency Plannin	B-Bal of Plant Ops	50-341/1998006

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Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 91			
Percent of Total: 39.22			
83-Work practice or	M-Mechanical	M-Maint / Repair	50-341/1998006
81-Work Package Qua	G-Engineering	G-Design	50-341/1998006
84-Non-conserv. dec	G-Engineering	G-Design	50-341/1998006
93-Awareness or att	M-Mechanical	H-Health Physics	50-341/1998008
83-Work practice or	M-Mechanical	M-Maint / Repair	50-341/1998008
83-Work practice or	I-Instrumentation &	S-Surveillance	50-341/1998008
84-Non-conserv. dec	I-Instrumentation &	S-Surveillance	50-341/1998008
93-Awareness or att	G-Engineering	G-Design	50-341/1998008
84-Non-conserv. dec	G-Engineering	D-Emergency Drill	50-341/1998008
86-Work untimely	G-Engineering	Z-Other	50-341/1998012
92-Self check LTA	O-Operations	S-Surveillance	50-341/1998012
94-Log-keeping or r	O-Operations	S-Surveillance	50-341/1998012
83-Work practice or	E-Electrical	M-Maint / Repair	50-341/1998012
83-Work practice or	E-Electrical	S-Surveillance	50-341/1998012
89-Housekeeping LTA	Z-Other	K-Housekeeping	50-341/1998012
93-Awareness or att	Z-Other	A-Administrative	50-341/1998012
83-Work practice or	Z-Other	Z-Other	50-341/1998012
81-Work Package Qua	W-Work Control / Sc	F-Modification	50-341/1998013
84-Non-conserv. dec	W-Work Control / Sc	S-Surveillance	50-341/1998013
91-Verification / p	W-Work Control / Sc	S-Surveillance	50-341/1998013
91-Verification / p	W-Work Control / Sc	S-Surveillance	50-341/1998013
91-Verification / p	W-Work Control / Sc	S-Surveillance	50-341/1998013
91-Verification / p	W-Work Control / Sc	S-Surveillance	50-341/1998013
91-Verification / p	I-Instrumentation &	S-Surveillance	50-341/1998013
91-Verification / p	W-Work Control / Sc	S-Surveillance	50-341/1998013
91-Verification / p	W-Work Control / Sc	S-Surveillance	50-341/1998013
93-Awareness or att	G-Engineering	A-Administrative	50-341/1998013
81-Work Package Qua	G-Engineering	F-Modification	50-341/1998013
83-Work practice or	E-Electrical	F-Modification	50-341/1998013
81-Work Package Qua	W-Work Control / Sc	F-Modification	50-341/1998013
83-Work practice or	U-Unknown	H-Health Physics	50-341/1998013
83-Work practice or	U-Unknown	H-Health Physics	50-341/1998013
83-Work practice or	U-Unknown	H-Health Physics	50-341/1998013
83-Work practice or	U-Unknown	H-Health Physics	50-341/1998013
83-Work practice or	U-Unknown	H-Health Physics	50-341/1998013
93-Awareness or att	H-Health Physics	H-Health Physics	50-341/1998013

Details	Department	Work Type	Docket/Report
Work Factors ER			
Number of items: 20			
Percent of total: 8.62			
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
93-Awareness or att	T-Training	Z-Other	50-341/1998301
83-Work practice or	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
81-Work Package Qua	T-Training	Z-Other	50-341/1998301
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Work Factors ER			
Number of items: 20			
Percent of Total: 8.62			
93-Awareness or att	T-Training	Z-Other	50-341/1998301
93-Awareness or att	T-Training	Z-Other	50-341/1998301
93-Awareness or att	T-Training	Z-Other	50-341/1998301
82-Briefing, prep.	O-Operations	Z-Other	50-341/1998301
84-Non-conserv. dec	O-Operations	Z-Other	50-341/1998301
86-Work untimely	O-Operations	Z-Other	50-341/1998301
86-Work untimely	O-Operations	Z-Other	50-341/1998301
82-Briefing, prep.	O-Operations	Z-Other	50-341/1998301

82-Briefing, prep.	O-Operations	Z-Other	50-341/1998301
84-Non-conserv. dec	O-Operations	Z-Other	50-341/1998301

Work Factors LER

Number of items: 6

Percent of total: 2.59

81-Work Package Qua	G-Engineering	P-Procedure Dev	50-341/199800200
91-Verification / p	G-Engineering	P-Procedure Dev	50-341/199800200
83-Work practice or	P-Procedure Writers	P-Procedure Dev	50-341/199800300
91-Verification / p	P-Procedure Writers	P-Procedure Dev	50-341/199800300
84-Non-conserv. dec	P-Procedure Writers	P-Procedure Dev	50-341/199800301
92-Self check LTA	O-Operations	O-Control Room Ops	50-341/199800900

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