

# 1999 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: 158  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 10			
Percent of total: 6.33			
54-No communication	I-Instrumentation & M-Maint / Repair		50-341/1998019
	I-Instrumentation &		
55-Communication Eq	O-Operations	Q-Fire Protection	50-341/1999005
	O-Operations		
53-Communication LT	O-Operations	O-Control Room Ops	50-341/1999007
	O-Operations		
53-Communication LT	O-Operations	O-Control Room Ops	50-341/1999007
	O-Operations		
53-Communication LT	G-Engineering	R-Refueling	50-341/1999007
	G-Engineering		
52-Communication un	O-Operations	M-Maint / Repair	50-341/1999009
	O-Operations		
51-Misunderstood /	E-Electrical	M-Maint / Repair	50-341/1999015
	E-Electrical		
54-No communication	Z-Other	Z-Other	50-341/1999017
	Z-Other		
54-No communication	Z-Other	Z-Other	50-341/1999017
	Z-Other		
54-No communication	Z-Other	Z-Other	50-341/1999017
	Z-Other		

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: 0  
Percent of total: 0

Human-System Interface and Environm ER  
Number of items: 0  
Percent of total: 0

Human-System Interface and Environm LER  
Number of items: 0  
Percent of total: 0

Management and Supervision IR  
Number of items: 16  
Percent of total: 10.13

36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-341/1998019
36-Scheduling and p	E-Electrical	M-Maint / Repair	50-341/1998019
47-Root Cause LTA	G-Engineering	Z-Other	50-341/1999002
43-Operating Experi	G-Engineering	Z-Other	50-341/1999002

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Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 16			
Percent of Total: 10.13			
47-Root Cause LTA	O-Operations	Z-Other	50-341/1999003
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-341/1999003

## Human Factors Information System Report

41-Action not begun	E-Electrical	Z-Other	50-341/1999003
41-Action not begun	E-Electrical	Z-Other	50-341/1999003
48-Audits or proble	O-Operations	Q-Fire Protection	50-341/1999005
33-Management expec	B-Plant Management	O-Control Room Ops	50-341/1999007
33-Management expec	B-Plant Management	M-Maint / Repair	50-341/1999007
43-Operating Experi	G-Engineering	Z-Other	50-341/1999011
36-Scheduling and p	W-Work Control / Sc	S-Surveillance	50-341/1999014
36-Scheduling and p	W-Work Control / Sc	S-Surveillance	50-341/1999014
36-Scheduling and p	E-Electrical	S-Surveillance	50-341/1999014
40-Individual Corre	T-Training	Z-Other	50-341/1999020

## Management and Supervision ER

Number of items: 0  
Percent of total: 0

## Management and Supervision LER

Number of items: 1  
Percent of total: .63

40-Individual Corre	M-Mechanical	M-Maint / Repair	50-341/199900200
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## Organizational Issues IR

Number of items: 6  
Percent of total: 3.8

21-Staffing LTA	O-Operations	B-Bal of Plant Ops	50-341/1999003
22-Poor Task Alloca	O-Operations	B-Bal of Plant Ops	50-341/1999003
26-OT controls / sc	O-Operations	O-Control Room Ops	50-341/1999007
26-OT controls / sc	M-Mechanical	M-Maint / Repair	50-341/1999007
26-OT controls / sc	G-Engineering	G-Design	50-341/1999007
26-OT controls / sc	H-Health Physics	H-Health Physics	50-341/1999007

## 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: 26  
Percent of total: 16.46

13-Procedure has hu	O-Operations	Z-Other	50-341/1998019
12-Procedure techni	G-Engineering	G-Design	50-341/1999002
12-Procedure techni	G-Engineering	G-Design	50-341/1999002
12-Procedure techni	G-Engineering	G-Design	50-341/1999002
12-Procedure techni	G-Engineering	G-Design	50-341/1999002
12-Procedure techni	G-Engineering	G-Design	50-341/1999002
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999003

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## Procedures and Reference Document IR

Number of items: 26  
Percent of Total: 16.46

13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999003
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-341/1999003
13-Procedure has hu	Q-QA/QC	Z-Other	50-341/1999004
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-341/1999005
14-Document develop	P-Procedure Writers	P-Procedure Dev	50-341/1999007
13-Procedure has hu	G-Engineering	R-Refueling	50-341/1999007
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999009
11-No procedure / r	P-Procedure Writers	P-Procedure Dev	50-341/1999009
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999011
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-341/1999011
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999011
13-Procedure has hu	G-Engineering	G-Design	50-341/1999011
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999014
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999014
11-No procedure / r	G-Engineering	G-Design	50-341/1999014
11-No procedure / r	H-Health Physics	H-Health Physics	50-341/1999015
11-No procedure / r	Z-Other	Z-Other	50-341/1999017
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999020
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-341/1999020

## Procedures and Reference Document ER

Number of items: 0  
Percent of total: 0

## Procedures and Reference Document LER

Number of items: 1  
Percent of total: .63

12-Procedure techni M-Mechanical M-Maint / Repair 50-341/199900800

## Training IR

Number of items: 11  
Percent of total: 6.96

01-No Training	O-Operations	P-Procedure Dev	50-341/1999001
06-Simulator fideli	T-Training	Z-Other	50-341/1999003
06-Simulator fideli	T-Training	Z-Other	50-341/1999003
02-Training LTA	T-Training	H-Health Physics	50-341/1999011
02-Training LTA	T-Training	H-Health Physics	50-341/1999011
02-Training LTA	T-Training	K-Housekeeping	50-341/1999011
02-Training LTA	T-Training	H-Health Physics	50-341/1999011
02-Training LTA	T-Training	M-Maint / Repair	50-341/1999014
03-Training process	T-Training	Z-Other	50-341/1999015
06-Simulator fideli	T-Training	Z-Other	50-341/1999020
03-Training process	T-Training	Z-Other	50-341/1999020

## Training ER

Number of items: 0  
Percent of total: 0

## Training LER

Number of items: 0  
Percent of total: 0

## Work Factors IR

Number of items: 87  
Percent of total: 55.06

83-Work practice or O-Operations A-Administrative 50-341/1998019  
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## Combined IR/ER/LER Report

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Details	Department	Work Type	Docket/Report
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## Work Factors IR

Number of items: 87  
Percent of Total: 55.06

83-Work practice or	O-Operations	A-Administrative	50-341/1998019
83-Work practice or	O-Operations	A-Administrative	50-341/1998019
83-Work practice or	O-Operations	A-Administrative	50-341/1998019
93-Awareness or att	O-Operations	A-Administrative	50-341/1998019
93-Awareness or att	O-Operations	A-Administrative	50-341/1998019
93-Awareness or att	O-Operations	A-Administrative	50-341/1998019
85-Team interaction	E-Electrical	M-Maint / Repair	50-341/1998019
85-Team interaction	W-Work Control / Sc	M-Maint / Repair	50-341/1998019
92-Self check LTA	E-Electrical	M-Maint / Repair	50-341/1998019
83-Work practice or	G-Engineering	T-Testing	50-341/1998019
83-Work practice or	G-Engineering	F-Modification	50-341/1999002
91-Verification / p	G-Engineering	F-Modification	50-341/1999002
83-Work practice or	G-Engineering	F-Modification	50-341/1999002
93-Awareness or att	G-Engineering	G-Design	50-341/1999002
83-Work practice or	G-Engineering	F-Modification	50-341/1999002
83-Work practice or	G-Engineering	A-Administrative	50-341/1999002
83-Work practice or	G-Engineering	A-Administrative	50-341/1999002
83-Work practice or	G-Engineering	A-Administrative	50-341/1999002
83-Work practice or	O-Operations	S-Surveillance	50-341/1999003
85-Team interaction	O-Operations	B-Bal of Plant Ops	50-341/1999003
85-Team interaction	H-Health Physics	B-Bal of Plant Ops	50-341/1999003
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-341/1999003
84-Non-conserv. dec	O-Operations	B-Bal of Plant Ops	50-341/1999003
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-341/1999003
92-Self check LTA	O-Operations	B-Bal of Plant Ops	50-341/1999003
93-Awareness or att	E-Electrical	M-Maint / Repair	50-341/1999003
93-Awareness or att	E-Electrical	M-Maint / Repair	50-341/1999003
93-Awareness or att	E-Electrical	M-Maint / Repair	50-341/1999003
83-Work practice or	M-Mechanical	M-Maint / Repair	50-341/1999003
83-Work practice or	M-Mechanical	M-Maint / Repair	50-341/1999003
83-Work practice or	M-Mechanical	M-Maint / Repair	50-341/1999003
93-Awareness or att	U-Unknown	M-Maint / Repair	50-341/1999003

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93-Awareness or att	D-Emergency Plannin	A-Administrative	50-341/1999004
81-Work Package Qua	G-Engineering	G-Design	50-341/1999005
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-341/1999006
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-341/1999006
93-Awareness or att	O-Operations	O-Control Room Ops	50-341/1999007
93-Awareness or att	O-Operations	O-Control Room Ops	50-341/1999007
93-Awareness or att	O-Operations	A-Administrative	50-341/1999007
93-Awareness or att	O-Operations	A-Administrative	50-341/1999007
93-Awareness or att	O-Operations	O-Control Room Ops	50-341/1999007
83-Work practice or	O-Operations	A-Administrative	50-341/1999007
83-Work practice or	O-Operations	A-Administrative	50-341/1999007
83-Work practice or	O-Operations	A-Administrative	50-341/1999007
85-Team interaction	M-Mechanical	M-Maint / Repair	50-341/1999007
83-Work practice or	M-Mechanical	M-Maint / Repair	50-341/1999007
84-Non-conserv. dec	G-Engineering	V-Troubleshooting	50-341/1999007
93-Awareness or att	G-Engineering	R-Refueling	50-341/1999007
91-Verification / p	G-Engineering	R-Refueling	50-341/1999007
83-Work practice or	G-Engineering	R-Refueling	50-341/1999007

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Details	Department	Work Type	Docket/Report
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## Work Factors IR

Number of items: 87

Percent of Total: 55.06

81-Work Package Qua	G-Engineering	F-Modification	50-341/1999009
85-Team interaction	O-Operations	M-Maint / Repair	50-341/1999009
94-Log-keeping or r	O-Operations	M-Maint / Repair	50-341/1999009
93-Awareness or att	O-Operations	M-Maint / Repair	50-341/1999009
93-Awareness or att	G-Engineering	P-Procedure Dev	50-341/1999009
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-341/1999011
92-Self check LTA	O-Operations	B-Bal of Plant Ops	50-341/1999011
91-Verification / p	W-Work Control / Sc	M-Maint / Repair	50-341/1999011
91-Verification / p	W-Work Control / Sc	M-Maint / Repair	50-341/1999011
91-Verification / p	W-Work Control / Sc	M-Maint / Repair	50-341/1999011
93-Awareness or att	W-Work Control / Sc	M-Maint / Repair	50-341/1999011
93-Awareness or att	W-Work Control / Sc	M-Maint / Repair	50-341/1999011
93-Awareness or att	W-Work Control / Sc	M-Maint / Repair	50-341/1999011
83-Work practice or	E-Electrical	H-Health Physics	50-341/1999011
83-Work practice or	E-Electrical	H-Health Physics	50-341/1999011
93-Awareness or att	P-Procedure Writers	F-Modification	50-341/1999011
93-Awareness or att	G-Engineering	F-Modification	50-341/1999011
92-Self check LTA	O-Operations	S-Surveillance	50-341/1999014
93-Awareness or att	O-Operations	S-Surveillance	50-341/1999014
91-Verification / p	O-Operations	S-Surveillance	50-341/1999014
81-Work Package Qua	W-Work Control / Sc	M-Maint / Repair	50-341/1999014
93-Awareness or att	O-Operations	O-Control Room Ops	50-341/1999015
93-Awareness or att	M-Mechanical	M-Maint / Repair	50-341/1999015
82-Briefing, prep.	O-Operations	M-Maint / Repair	50-341/1999015
81-Work Package Qua	W-Work Control / Sc	M-Maint / Repair	50-341/1999015
93-Awareness or att	G-Engineering	G-Design	50-341/1999015
84-Non-conserv. dec	G-Engineering	G-Design	50-341/1999015
84-Non-conserv. dec	G-Engineering	G-Design	50-341/1999015
84-Non-conserv. dec	G-Engineering	G-Design	50-341/1999015
84-Non-conserv. dec	G-Engineering	G-Design	50-341/1999015
93-Awareness or att	H-Health Physics	H-Health Physics	50-341/1999015
91-Verification / p	H-Health Physics	H-Health Physics	50-341/1999015
93-Awareness or att	G-Engineering	H-Health Physics	50-341/1999015
85-Team interaction	Z-Other	Z-Other	50-341/1999017
85-Team interaction	Z-Other	Z-Other	50-341/1999017
85-Team interaction	Z-Other	Z-Other	50-341/1999017

## Work Factors ER

Number of items: 0

Percent of total: 0

## Work Factors LER

Number of items: 0

Percent of total: 0

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