

# 1998 Human Factors Information System Report for Plant Docket 440

Combined IR/ER/LER Report  
Docket: 50-440 PERRY 1

Total Number of Hits in Date Range: 175  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 10			
Percent of total: 5.71			
53-Communication LT	O-Operations	M-Maint / Repair	50-440/1997016
	O-Operations		
54-No communication	I-Instrumentation &	T-Testing	50-440/1997016
	I-Instrumentation &		
53-Communication LT	O-Operations	O-Control Room Ops	50-440/1997021
	O-Operations		
53-Communication LT	O-Operations	O-Control Room Ops	50-440/1997021
	O-Operations		
51-Misunderstood /	E-Electrical	M-Maint / Repair	50-440/1998006
	E-Electrical		
53-Communication LT	O-Operations	O-Control Room Ops	50-440/1998007
	O-Operations		
53-Communication LT	O-Operations	T-Testing	50-440/1998007
	O-Operations		
54-No communication	U-Unknown	A-Administrative	50-440/1998010
	U-Unknown		
54-No communication	O-Operations	D-Emergency Drill	50-440/1998013
	O-Operations		
51-Misunderstood /	O-Operations	M-Maint / Repair	50-440/1998016
	G-Engineering		

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: 1  
Percent of total: .57  
61-Labels LTA O-Operations B-Bal of Plant Ops 50-440/1997021

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: 27  
Percent of total: 15.43  
33-Management expec O-Operations O-Control Room Ops 50-440/1997021  
44-Corrective Actio O-Operations Z-Other 50-440/1998002  
Page: 1 Date:01/13/1999

Combined IR/ER/LER Report  
Docket: 50-440 PERRY 1

Total Number of Hits in Date Range: 175  
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: 27			
Percent of Total: 15.43			
40-Individual Corre	G-Engineering	Z-Other	50-440/1998002
40-Individual Corre	G-Engineering	Z-Other	50-440/1998002

47-Root Cause LTA	G-Engineering	Z-Other	50-440/1998002
40-Individual Corre	G-Engineering	Z-Other	50-440/1998002
33-Management expec	B-Plant Management	Q-Fire Protection	50-440/1998005
32-Supervision / co	O-Operations	S-Surveillance	50-440/1998006
41-Action not begun	O-Operations	Z-Other	50-440/1998006
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-440/1998006
33-Management expec	O-Operations	A-Administrative	50-440/1998007
41-Action not begun	G-Engineering	Z-Other	50-440/1998009
32-Supervision / co	O-Operations	M-Maint / Repair	50-440/1998010
41-Action not begun	O-Operations	Z-Other	50-440/1998010
41-Action not begun	O-Operations	Z-Other	50-440/1998010
41-Action not begun	O-Operations	Z-Other	50-440/1998010
41-Action not begun	O-Operations	Z-Other	50-440/1998010
41-Action not begun	E-Electrical	Z-Other	50-440/1998011
43-Operating Experi	G-Engineering	Z-Other	50-440/1998011
43-Operating Experi	G-Engineering	Z-Other	50-440/1998011
43-Operating Experi	G-Engineering	Z-Other	50-440/1998011
48-Audits or proble	G-Engineering	Z-Other	50-440/1998011
40-Individual Corre	G-Engineering	A-Administrative	50-440/1998011
47-Root Cause LTA	G-Engineering	Z-Other	50-440/1998011
33-Management expec	O-Operations	D-Emergency Drill	50-440/1998013
40-Individual Corre	O-Operations	Z-Other	50-440/1998016
36-Scheduling and p	M-Mechanical	M-Maint / Repair	50-440/1998016

## Management and Supervision ER

Number of items: 0

Percent of total: 0

## Management and Supervision LER

Number of items: 0

Percent of total: 0

## 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: 24

Percent of total: 13.71

12-Procedure techni G-Engineering G-Design 50-440/1997016

Page: 2 Date:01/13/1999

## Combined IR/ER/LER Report

Docket: 50-440 PERRY 1

Total Number of Hits in Date Range: 175

From 01/01/1998 to 12/31/1998

2x National Average: 255

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

## Procedures and Reference Document IR

Number of items: 24

Percent of Total: 13.71

11-No procedure / r	G-Engineering	G-Design	50-440/1997021
12-Procedure techni	G-Engineering	G-Design	50-440/1998002
12-Procedure techni	G-Engineering	G-Design	50-440/1998005
13-Procedure has hu	G-Engineering	G-Design	50-440/1998007
13-Procedure has hu	G-Engineering	G-Design	50-440/1998007
11-No procedure / r	G-Engineering	G-Design	50-440/1998007
12-Procedure techni	G-Engineering	G-Design	50-440/1998009
12-Procedure techni	G-Engineering	G-Design	50-440/1998010
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-440/1998011
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-440/1998011
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-440/1998011
12-Procedure techni	Q-QA/QC	P-Procedure Dev	50-440/1998011
13-Procedure has hu	E-Electrical	P-Procedure Dev	50-440/1998011
13-Procedure has hu	M-Mechanical	P-Procedure Dev	50-440/1998011
11-No procedure / r	E-Electrical	P-Procedure Dev	50-440/1998011
11-No procedure / r	G-Engineering	P-Procedure Dev	50-440/1998011
13-Procedure has hu	G-Engineering	G-Design	50-440/1998013
13-Procedure has hu	G-Engineering	G-Design	50-440/1998014
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-440/1998016
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-440/1998016

## Human Factors Information System Report

12-Procedure techni	G-Engineering	G-Design	50-440/1998016
13-Procedure has hu	G-Engineering	G-Design	50-440/1998016
12-Procedure techni	G-Engineering	G-Design	50-440/1998016

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: .57

12-Procedure techni	G-Engineering	G-Design	50-440/199800100
---------------------	---------------	----------	------------------

## Training IR

Number of items: 8  
 Percent of total: 4.57

05-Individual knowl	O-Operations	O-Control Room Ops	50-440/1998010
05-Individual knowl	O-Operations	O-Control Room Ops	50-440/1998010
02-Training LTA	T-Training	Z-Other	50-440/1998010
03-Training process	T-Training	M-Maint / Repair	50-440/1998011
02-Training LTA	T-Training	Z-Other	50-440/1998016
05-Individual knowl	O-Operations	Q-Fire Protection	50-440/1998018
02-Training LTA	T-Training	Q-Fire Protection	50-440/1998018
02-Training LTA	T-Training	H-Health Physics	50-440/1998018

## 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: 102  
 Percent of total: 58.29

92-Self check LTA	O-Operations	S-Surveillance	50-440/1997016
-------------------	--------------	----------------	----------------

Page: 3                      Date:01/13/1999

## Combined IR/ER/LER Report

Docket: 50-440 PERRY 1

Total Number of Hits in Date Range: 175  
 From 01/01/1998 to 12/31/1998  
 2x National Average: 255

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

## Work Factors IR

Number of items: 102  
 Percent of Total: 58.29

86-Work untimely	O-Operations	S-Surveillance	50-440/1997016
83-Work practice or	G-Engineering	P-Procedure Dev	50-440/1997016
88-Tag outs LTA	O-Operations	M-Maint / Repair	50-440/1997016
84-Non-conserv. dec	M-Mechanical	M-Maint / Repair	50-440/1997016
92-Self check LTA	O-Operations	M-Maint / Repair	50-440/1997016
93-Awareness or att	O-Operations	M-Maint / Repair	50-440/1997016
84-Non-conserv. dec	I-Instrumentation &	T-Testing	50-440/1997016
93-Awareness or att	W-Work Control / Sc	M-Maint / Repair	50-440/1997016
92-Self check LTA	W-Work Control / Sc	M-Maint / Repair	50-440/1997016
81-Work Package Qua	G-Engineering	G-Design	50-440/1997021
83-Work practice or	U-Unknown	Q-Fire Protection	50-440/1997021
83-Work practice or	M-Mechanical	Q-Fire Protection	50-440/1997021
81-Work Package Qua	G-Engineering	F-Modification	50-440/1998002
83-Work practice or	G-Engineering	F-Modification	50-440/1998002
81-Work Package Qua	G-Engineering	Q-Fire Protection	50-440/1998005
83-Work practice or	G-Engineering	Q-Fire Protection	50-440/1998005
83-Work practice or	G-Engineering	A-Administrative	50-440/1998005
93-Awareness or att	G-Engineering	Q-Fire Protection	50-440/1998005
83-Work practice or	G-Engineering	Q-Fire Protection	50-440/1998005
83-Work practice or	O-Operations	S-Surveillance	50-440/1998006
91-Verification / p	G-Engineering	S-Surveillance	50-440/1998006
93-Awareness or att	O-Operations	O-Control Room Ops	50-440/1998006
91-Verification / p	O-Operations	O-Control Room Ops	50-440/1998006
83-Work practice or	Z-Other	M-Maint / Repair	50-440/1998006
83-Work practice or	Z-Other	M-Maint / Repair	50-440/1998006
82-Briefing, prep.	O-Operations	B-Bal of Plant Ops	50-440/1998007
83-Work practice or	O-Operations	O-Control Room Ops	50-440/1998007
93-Awareness or att	O-Operations	O-Control Room Ops	50-440/1998007
93-Awareness or att	O-Operations	O-Control Room Ops	50-440/1998007
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-440/1998007
93-Awareness or att	O-Operations	O-Control Room Ops	50-440/1998007

## Human Factors Information System Report

88-Tag outs LTA	O-Operations	M-Maint / Repair	50-440/1998007
92-Self check LTA	O-Operations	M-Maint / Repair	50-440/1998007
85-Team interaction	G-Engineering	T-Testing	50-440/1998007
82-Briefing, prep.	O-Operations	T-Testing	50-440/1998007
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-440/1998007
83-Work practice or	M-Mechanical	M-Maint / Repair	50-440/1998007
83-Work practice or	M-Mechanical	A-Administrative	50-440/1998007
84-Non-conserv. dec	G-Engineering	G-Design	50-440/1998007
83-Work practice or	G-Engineering	G-Design	50-440/1998007
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-440/1998009
83-Work practice or	Z-Other	M-Maint / Repair	50-440/1998009
83-Work practice or	E-Electrical	F-Modification	50-440/1998009
83-Work practice or	G-Engineering	G-Design	50-440/1998009
93-Awareness or att	O-Operations	M-Maint / Repair	50-440/1998010
91-Verification / p	O-Operations	M-Maint / Repair	50-440/1998010
93-Awareness or att	O-Operations	M-Maint / Repair	50-440/1998010
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-440/1998010
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-440/1998010
93-Awareness or att	O-Operations	O-Control Room Ops	50-440/1998010

Page: 4 Date:01/13/1999

Combined IR/ER/LER Report  
Docket: 50-440 PERRY 1

Total Number of Hits in Date Range: 175  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 102			
Percent of Total: 58.29			
93-Awareness or att	O-Operations	Z-Other	50-440/1998010
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-440/1998010
83-Work practice or	O-Operations	S-Surveillance	50-440/1998010
93-Awareness or att	O-Operations	S-Surveillance	50-440/1998010
91-Verification / p	O-Operations	S-Surveillance	50-440/1998010
93-Awareness or att	M-Mechanical	Q-Fire Protection	50-440/1998010
93-Awareness or att	M-Mechanical	Q-Fire Protection	50-440/1998010
93-Awareness or att	O-Operations	Q-Fire Protection	50-440/1998010
89-Housekeeping LTA	U-Unknown	M-Maint / Repair	50-440/1998010
89-Housekeeping LTA	M-Mechanical	M-Maint / Repair	50-440/1998010
89-Housekeeping LTA	I-Instrumentation &	M-Maint / Repair	50-440/1998010
87-Non-conservative	U-Unknown	Z-Other	50-440/1998010
93-Awareness or att	E-Electrical	T-Testing	50-440/1998011
93-Awareness or att	E-Electrical	T-Testing	50-440/1998011
91-Verification / p	E-Electrical	T-Testing	50-440/1998011
93-Awareness or att	E-Electrical	T-Testing	50-440/1998011
93-Awareness or att	G-Engineering	G-Design	50-440/1998011
93-Awareness or att	G-Engineering	A-Administrative	50-440/1998011
93-Awareness or att	G-Engineering	A-Administrative	50-440/1998011
93-Awareness or att	G-Engineering	A-Administrative	50-440/1998011
81-Work Package Qua	G-Engineering	G-Design	50-440/1998011
91-Verification / p	G-Engineering	G-Design	50-440/1998011
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-440/1998013
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-440/1998013
93-Awareness or att	Z-Other	M-Maint / Repair	50-440/1998013
93-Awareness or att	Z-Other	M-Maint / Repair	50-440/1998013
93-Awareness or att	Z-Other	M-Maint / Repair	50-440/1998013
93-Awareness or att	G-Engineering	G-Design	50-440/1998013
93-Awareness or att	H-Health Physics	H-Health Physics	50-440/1998013
91-Verification / p	O-Operations	H-Health Physics	50-440/1998013
91-Verification / p	H-Health Physics	H-Health Physics	50-440/1998013
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-440/1998016
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-440/1998016
93-Awareness or att	O-Operations	A-Administrative	50-440/1998016
93-Awareness or att	M-Mechanical	M-Maint / Repair	50-440/1998016
93-Awareness or att	M-Mechanical	M-Maint / Repair	50-440/1998016
83-Work practice or	G-Engineering	M-Maint / Repair	50-440/1998016
92-Self check LTA	E-Electrical	M-Maint / Repair	50-440/1998016
91-Verification / p	E-Electrical	M-Maint / Repair	50-440/1998016
86-Work untimely	G-Engineering	G-Design	50-440/1998016
83-Work practice or	U-Unknown	Q-Fire Protection	50-440/1998016
83-Work practice or	U-Unknown	Q-Fire Protection	50-440/1998016
81-Work Package Qua	G-Engineering	G-Design	50-440/1998016
83-Work practice or	G-Engineering	G-Design	50-440/1998016
83-Work practice or	G-Engineering	G-Design	50-440/1998016
83-Work practice or	G-Engineering	Z-Other	50-440/1998016
81-Work Package Qua	G-Engineering	F-Modification	50-440/1998016
83-Work practice or	O-Operations	Q-Fire Protection	50-440/1998018
83-Work practice or	M-Mechanical	Q-Fire Protection	50-440/1998018

## Human Factors Information System Report

89-Housekeeping LTA U-Unknown M-Maint / Repair 50-440/1998018  
 Page: 5 Date:01/13/1999

Combined IR/ER/LER Report  
 Docket: 50-440 PERRY 1

Total Number of Hits in Date Range: 175  
 From 01/01/1998 to 12/31/1998  
 2x National Average: 255

Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 102			
Percent of Total: 58.29			
83-Work practice or O-Operations		S-Surveillance	50-440/1998018
Work Factors ER			
Number of items: 0			
Percent of total: 0			
Work Factors LER			
Number of items: 2			
Percent of total: 1.14			
93-Awareness or att	P-Procedure Writers	A-Administrative	50-440/199800100
91-Verification / p	P-Procedure Writers	P-Procedure Dev	50-440/199800100
Page: 6 Date:01/13/1999			

**[End of File for Plant Docket 440 (1998)]**

---