

# 1997 Human Factors Information System Report for Plant Docket 324

Combined IR/ER/LER Report  
Docket: 50-324 BRUNSWICK 2

Total Number of Hits in Date Range: 186  
From 01/01/1997 to 12/31/1997  
2x National Average: 213

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 3			
Percent of total: 1.61			
53-Communication LT	Z-Other	Q-Fire Protection	50-324/1997008
	Z-Other		
54-No communication	Z-Other	H-Health Physics	50-324/1997009
	Z-Other		
55-Communication Eq	F-Fuel Handling	R-Refueling	50-324/1997011
	F-Fuel Handling		

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: 7  
Percent of total: 3.76

61-Labels LTA	C-Chemistry	M-Maint / Repair	50-324/1997002
61-Labels LTA	C-Chemistry	B-Bal of Plant Ops	50-324/1997002
61-Labels LTA	C-Chemistry	M-Maint / Repair	50-324/1997002
61-Labels LTA	O-Operations	B-Bal of Plant Ops	50-324/1997007
76-Postings LTA	H-Health Physics	H-Health Physics	50-324/1997008
61-Labels LTA	O-Operations	O-Control Room Ops	50-324/1997011
75-Work area LTA	Z-Other	Z-Other	50-324/1997011

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: 28  
Percent of total: 15.05

32-Supervision / co	I-Instrumentation &	U-Unknown	50-324/1996018
33-Management expec	B-Plant Management	U-Unknown	50-324/1996018
40-Individual Corre	O-Operations	U-Unknown	50-324/1996018
42-No action planne	O-Operations	U-Unknown	50-324/1996018
48-Audits or proble	G-Engineering	S-Surveillance	50-324/1997002
48-Audits or proble	G-Engineering	G-Design	50-324/1997003
44-Corrective Actio	G-Engineering	Z-Other	50-324/1997007
32-Supervision / co	O-Operations	O-Control Room Ops	50-324/1997008
47-Root Cause LTA	O-Operations	Z-Other	50-324/1997008
40-Individual Corre	G-Engineering	Z-Other	50-324/1997008
43-Operating Experi	G-Engineering	Z-Other	50-324/1997008

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Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 28			
Percent of Total: 15.05			
33-Management expec	H-Health Physics	H-Health Physics	50-324/1997008

48-Audits or proble	Q-QA/QC	H-Health Physics	50-324/1997009
32-Supervision / co	H-Health Physics	H-Health Physics	50-324/1997009
43-Operating Experi	O-Operations	Z-Other	50-324/1997011
40-Individual Corre	G-Engineering	S-Surveillance	50-324/1997011
40-Individual Corre	G-Engineering	V-Troubleshooting	50-324/1997011
40-Individual Corre	G-Engineering	Z-Other	50-324/1997011
43-Operating Experi	G-Engineering	Z-Other	50-324/1997012
40-Individual Corre	O-Operations	Z-Other	50-324/1997012
44-Corrective Actio	G-Engineering	Z-Other	50-324/1997012
32-Supervision / co	G-Engineering	G-Design	50-324/1997012
40-Individual Corre	G-Engineering	G-Design	50-324/1997012
33-Management expec	G-Engineering	G-Design	50-324/1997012
40-Individual Corre	G-Engineering	Z-Other	50-324/1997012
40-Individual Corre	G-Engineering	Z-Other	50-324/1997012
41-Action not begun	G-Engineering	Z-Other	50-324/1997012
40-Individual Corre	Z-Other	Z-Other	50-324/1997012

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: 1  
 Percent of total: .54

22-Poor Task Alloca	Z-Other	Z-Other	50-324/1997010
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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: 20  
 Percent of total: 10.75

11-No procedure / r	O-Operations	U-Unknown	50-324/1996018
11-No procedure / r	G-Engineering	G-Design	50-324/1997002
12-Procedure techni	G-Engineering	G-Design	50-324/1997003
14-Document develop	G-Engineering	G-Design	50-324/1997003
12-Procedure techni	G-Engineering	G-Design	50-324/1997003
12-Procedure techni	G-Engineering	G-Design	50-324/1997003
12-Procedure techni	G-Engineering	G-Design	50-324/1997007
12-Procedure techni	G-Engineering	G-Design	50-324/1997007

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Procedures and Reference Document IR  
 Number of items: 20  
 Percent of Total: 10.75

12-Procedure techni	G-Engineering	O-Control Room Ops	50-324/1997008
12-Procedure techni	G-Engineering	G-Design	50-324/1997008
12-Procedure techni	G-Engineering	G-Design	50-324/1997008
12-Procedure techni	G-Engineering	G-Design	50-324/1997008
13-Procedure has hu	Z-Other	Q-Fire Protection	50-324/1997008
13-Procedure has hu	G-Engineering	G-Design	50-324/1997009
11-No procedure / r	G-Engineering	G-Design	50-324/1997009
11-No procedure / r	G-Engineering	G-Design	50-324/1997009
12-Procedure techni	G-Engineering	G-Design	50-324/1997011
13-Procedure has hu	G-Engineering	G-Design	50-324/1997012
12-Procedure techni	G-Engineering	G-Design	50-324/1997012
11-No procedure / r	Z-Other	Z-Other	50-324/1997012

Procedures and Reference Document ER  
 Number of items: 1  
 Percent of total: .54

12-Procedure techni	G-Engineering	G-Design	50-324/1997300
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Procedures and Reference Document LER

Number of items: 8  
 Percent of total: 4.3

13-Procedure has hu	G-Engineering	G-Design	50-324/199700200
13-Procedure has hu	O-Operations	O-Control Room Ops	50-325/199700400
11-No procedure / r	G-Engineering	T-Testing	50-325/199700800
12-Procedure techni	G-Engineering	A-Administrative	50-325/199701000
12-Procedure techni	G-Engineering	T-Testing	50-325/199701000
14-Document develop	E-Electrical	S-Surveillance	50-325/199701001
13-Procedure has hu	M-Mechanical	A-Administrative	50-325/199701200
13-Procedure has hu	M-Mechanical	T-Testing	50-325/199701200

## Training IR

Number of items: 19  
 Percent of total: 10.22

01-No Training	H-Health Physics	U-Unknown	50-324/1996016
02-Training LTA	T-Training	A-Administrative	50-324/1997002
02-Training LTA	T-Training	Z-Other	50-324/1997005
02-Training LTA	T-Training	O-Control Room Ops	50-324/1997007
03-Training process	T-Training	A-Administrative	50-324/1997007
05-Individual knowl	E-Electrical	M-Maint / Repair	50-324/1997007
02-Training LTA	T-Training	Z-Other	50-324/1997007
03-Training process	T-Training	Z-Other	50-324/1997007
03-Training process	T-Training	Z-Other	50-324/1997007
02-Training LTA	Z-Other	Z-Other	50-324/1997007
01-No Training	T-Training	Z-Other	50-324/1997008
04-Task Qualificati	H-Health Physics	H-Health Physics	50-324/1997009
04-Task Qualificati	H-Health Physics	H-Health Physics	50-324/1997009
05-Individual knowl	Z-Other	H-Health Physics	50-324/1997009
05-Individual knowl	M-Mechanical	H-Health Physics	50-324/1997011
02-Training LTA	T-Training	H-Health Physics	50-324/1997011
05-Individual knowl	O-Operations	B-Bal of Plant Ops	50-324/1997012

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Details	Department	Work Type	Docket/Report
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## Training IR

Number of items: 19  
 Percent of Total: 10.22

05-Individual knowl	G-Engineering	Z-Other	50-324/1997012
04-Task Qualificati	G-Engineering	G-Design	50-324/1997012

## Training ER

Number of items: 1  
 Percent of total: .54

05-Individual knowl	O-Operations	Z-Other	50-324/1997300
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## Training LER

Number of items: 0  
 Percent of total: 0

## Work Factors IR

Number of items: 90  
 Percent of total: 48.39

87-Non-conservati	H-Health Physics	U-Unknown	50-324/1996016
84-Non-conserv. dec	M-Mechanical	U-Unknown	50-324/1996018
92-Self check LTA	O-Operations	B-Bal of Plant Ops	50-324/1997002
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-324/1997002
83-Work practice or	E-Electrical	M-Maint / Repair	50-324/1997002
87-Non-conservati	I-Instrumentation & S	S-Surveillance	50-324/1997002
81-Work Package Qua	G-Engineering	F-Modification	50-324/1997002
83-Work practice or	E-Electrical	F-Modification	50-324/1997002
83-Work practice or	E-Electrical	F-Modification	50-324/1997002
81-Work Package Qua	G-Engineering	F-Modification	50-324/1997002
84-Non-conserv. dec	H-Health Physics	H-Health Physics	50-324/1997002
83-Work practice or	G-Engineering	F-Modification	50-324/1997003
81-Work Package Qua	G-Engineering	F-Modification	50-324/1997003
83-Work practice or	G-Engineering	F-Modification	50-324/1997003
81-Work Package Qua	G-Engineering	F-Modification	50-324/1997003
83-Work practice or	G-Engineering	G-Design	50-324/1997003
81-Work Package Qua	G-Engineering	G-Design	50-324/1997003
93-Awareness or att	G-Engineering	G-Design	50-324/1997003
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-324/1997005
83-Work practice or	E-Electrical	M-Maint / Repair	50-324/1997005
91-Verification / p	E-Electrical	M-Maint / Repair	50-324/1997005
83-Work practice or	G-Engineering	A-Administrative	50-324/1997005

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83-Work practice or Z-Other	Z-Other	50-324/1997005
83-Work practice or Z-Other	Z-Other	50-324/1997005
84-Non-conserv. dec O-Operations	O-Control Room Ops	50-324/1997007
83-Work practice or E-Electrical	M-Maint / Repair	50-324/1997007
81-Work Package Qua W-Work Control / Sc	M-Maint / Repair	50-324/1997007
82-Briefing, prep. E-Electrical	M-Maint / Repair	50-324/1997007
83-Work practice or M-Mechanical	M-Maint / Repair	50-324/1997007
81-Work Package Qua W-Work Control / Sc	M-Maint / Repair	50-324/1997007
82-Briefing, prep. M-Mechanical	M-Maint / Repair	50-324/1997007
83-Work practice or G-Engineering	G-Design	50-324/1997007
83-Work practice or G-Engineering	G-Design	50-324/1997007
83-Work practice or G-Engineering	G-Design	50-324/1997007
83-Work practice or G-Engineering	G-Design	50-324/1997007
83-Work practice or G-Engineering	G-Design	50-324/1997007
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Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 90			
Percent of Total: 48.39			
83-Work practice or G-Engineering	G-Design	50-324/1997007	
93-Awareness or att G-Engineering	G-Design	50-324/1997007	
83-Work practice or Z-Other	D-Emergency Drill	50-324/1997007	
89-Housekeeping LTA O-Operations	Q-Fire Protection	50-324/1997007	
93-Awareness or att O-Operations	O-Control Room Ops	50-324/1997008	
91-Verification / p O-Operations	O-Control Room Ops	50-324/1997008	
84-Non-conserv. dec O-Operations	O-Control Room Ops	50-324/1997008	
81-Work Package Qua W-Work Control / Sc	T-Testing	50-324/1997008	
83-Work practice or E-Electrical	T-Testing	50-324/1997008	
83-Work practice or M-Mechanical	M-Maint / Repair	50-324/1997008	
83-Work practice or A-Administrative Su	A-Administrative	50-324/1997008	
81-Work Package Qua G-Engineering	A-Administrative	50-324/1997008	
81-Work Package Qua G-Engineering	A-Administrative	50-324/1997008	
86-Work untimely O-Operations	A-Administrative	50-324/1997008	
83-Work practice or G-Engineering	G-Design	50-324/1997008	
83-Work practice or G-Engineering	G-Design	50-324/1997008	
85-Team interaction O-Operations	Q-Fire Protection	50-324/1997008	
83-Work practice or U-Unknown	Q-Fire Protection	50-324/1997008	
83-Work practice or U-Unknown	Q-Fire Protection	50-324/1997008	
83-Work practice or G-Engineering	F-Modification	50-324/1997009	
83-Work practice or G-Engineering	A-Administrative	50-324/1997009	
83-Work practice or G-Engineering	A-Administrative	50-324/1997009	
83-Work practice or G-Engineering	G-Design	50-324/1997009	
81-Work Package Qua G-Engineering	G-Design	50-324/1997009	
83-Work practice or G-Engineering	A-Administrative	50-324/1997009	
83-Work practice or O-Operations	P-Procedure Dev	50-324/1997009	
92-Self check LTA O-Operations	B-Bal of Plant Ops	50-324/1997011	
83-Work practice or B-Plant Management	A-Administrative	50-324/1997011	
84-Non-conserv. dec O-Operations	S-Surveillance	50-324/1997011	
83-Work practice or I-Instrumentation &	S-Surveillance	50-324/1997011	
81-Work Package Qua W-Work Control / Sc	T-Testing	50-324/1997011	
93-Awareness or att M-Mechanical	T-Testing	50-324/1997011	
81-Work Package Qua G-Engineering	G-Design	50-324/1997011	
81-Work Package Qua G-Engineering	G-Design	50-324/1997011	
86-Work untimely G-Engineering	Z-Other	50-324/1997011	
83-Work practice or Z-Other	Z-Other	50-324/1997011	
83-Work practice or M-Mechanical	Z-Other	50-324/1997011	
83-Work practice or G-Engineering	G-Design	50-324/1997011	
83-Work practice or I-Instrumentation &	M-Maint / Repair	50-324/1997011	
83-Work practice or M-Mechanical	H-Health Physics	50-324/1997011	
83-Work practice or M-Mechanical	H-Health Physics	50-324/1997011	
83-Work practice or M-Mechanical	H-Health Physics	50-324/1997011	
83-Work practice or M-Mechanical	H-Health Physics	50-324/1997011	
83-Work practice or M-Mechanical	H-Health Physics	50-324/1997011	
83-Work practice or U-Unknown	Q-Fire Protection	50-324/1997011	
88-Tag outs LTA O-Operations	M-Maint / Repair	50-324/1997012	
93-Awareness or att O-Operations	M-Maint / Repair	50-324/1997012	
88-Tag outs LTA O-Operations	M-Maint / Repair	50-324/1997012	
83-Work practice or G-Engineering	G-Design	50-324/1997012	
91-Verification / p G-Engineering	G-Design	50-324/1997012	
83-Work practice or G-Engineering	G-Design	50-324/1997012	
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<b>Work Factors IR</b>			
Number of items: 90			
Percent of Total: 48.39			
83-Work practice or	G-Engineering	G-Design	50-324/1997012
83-Work practice or	G-Engineering	G-Design	50-324/1997012
83-Work practice or	G-Engineering	A-Administrative	50-324/1997012
83-Work practice or	G-Engineering	A-Administrative	50-324/1997012
93-Awareness or att	G-Engineering	A-Administrative	50-324/1997012
<b>Work Factors ER</b>			
Number of items: 7			
Percent of total: 3.76			
83-Work practice or	O-Operations	Z-Other	50-324/1997300
83-Work practice or	O-Operations	Z-Other	50-324/1997300
93-Awareness or att	O-Operations	Z-Other	50-324/1997300
93-Awareness or att	O-Operations	Z-Other	50-324/1997300
83-Work practice or	O-Operations	Z-Other	50-324/1997300
93-Awareness or att	O-Operations	Z-Other	50-324/1997300
93-Awareness or att	O-Operations	Z-Other	50-324/1997300
<b>Work Factors LER</b>			
Number of items: 1			
Percent of total: .54			
87-Non-conservati	G-Engineering	F-Modification	50-324/199700300
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**[End of File for Plant Docket 324 (1997)]**

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