

# 1999 Human Factors Information System Report for Plant Docket 412

Combined IR/ER/LER Report  
Docket: 50-412 BEAVER VALLEY 2

Total Number of Hits in Date Range: 162  
From 01/01/1999 to 12/31/1999  
2x National Average: 226

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 3			
Percent of total: 1.85			
52-Communication un	D-Emergency Plannin	D-Emergency Drill	50-412/1999005
	D-Emergency Plannin		
54-No communication	D-Emergency Plannin	D-Emergency Drill	50-412/1999005
	D-Emergency Plannin		
54-No communication	C-Chemistry	B-Bal of Plant Ops	50-412/1999007
	C-Chemistry		

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

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

Details	Department	Work Type	Docket/Report
Human-System Interface and Environm IR			
Number of items: 1			
Percent of total: .62			
65-Information Cont	O-Operations	O-Control Room Ops	50-412/1999007

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

Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 47			
Percent of total: 29.01			
40-Individual Corre	G-Engineering	Z-Other	50-412/1998009
41-Action not begun	G-Engineering	Z-Other	50-412/1998009
44-Corrective Actio	O-Operations	Z-Other	50-412/1998011
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-412/1998011
32-Supervision / co	O-Operations	B-Bal of Plant Ops	50-412/1999001
47-Root Cause LTA	G-Engineering	Z-Other	50-412/1999001
40-Individual Corre	P-Procedure Writers	Z-Other	50-412/1999001
44-Corrective Actio	O-Operations	Z-Other	50-412/1999001
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
33-Management expec	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
32-Supervision / co	G-Engineering	M-Maint / Repair	50-412/1999003
32-Supervision / co	M-Mechanical	M-Maint / Repair	50-412/1999003
48-Audits or proble	G-Engineering	Z-Other	50-412/1999003
48-Audits or proble	G-Engineering	Z-Other	50-412/1999003
41-Action not begun	G-Engineering	Z-Other	50-412/1999005

Page: 1 Date:03/17/2000

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Management and Supervision IR			
Number of items: 47			
Percent of Total: 29.01			
41-Action not begun	G-Engineering	Z-Other	50-412/1999005
44-Corrective Actio	B-Plant Management	Z-Other	50-412/1999006

## Human Factors Information System Report

44-Corrective Actio	O-Operations	Z-Other	50-412/1999006
44-Corrective Actio	I-Instrumentation &	Z-Other	50-412/1999006
44-Corrective Actio	E-Electrical	Z-Other	50-412/1999006
44-Corrective Actio	M-Mechanical	Z-Other	50-412/1999006
44-Corrective Actio	O-Operations	Z-Other	50-412/1999006
44-Corrective Actio	I-Instrumentation &	Z-Other	50-412/1999006
44-Corrective Actio	E-Electrical	Z-Other	50-412/1999006
44-Corrective Actio	M-Mechanical	Z-Other	50-412/1999006
41-Action not begun	O-Operations	Z-Other	50-412/1999006
44-Corrective Actio	O-Operations	Z-Other	50-412/1999006
41-Action not begun	O-Operations	Z-Other	50-412/1999006
44-Corrective Actio	I-Instrumentation &	Z-Other	50-412/1999006
41-Action not begun	O-Operations	Z-Other	50-412/1999006
42-No action planne	M-Mechanical	T-Testing	50-412/1999006
41-Action not begun	M-Mechanical	T-Testing	50-412/1999006
40-Individual Corre	M-Mechanical	T-Testing	50-412/1999006
44-Corrective Actio	G-Engineering	Z-Other	50-412/1999006
44-Corrective Actio	G-Engineering	Z-Other	50-412/1999006
41-Action not begun	O-Operations	Z-Other	50-412/1999007
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-412/1999007
40-Individual Corre	G-Engineering	Z-Other	50-412/1999007
40-Individual Corre	G-Engineering	Z-Other	50-412/1999007
48-Audits or proble	O-Operations	Z-Other	50-412/1999008
44-Corrective Actio	O-Operations	Z-Other	50-412/1999008
40-Individual Corre	G-Engineering	Z-Other	50-412/1999008
41-Action not begun	O-Operations	Z-Other	50-412/1999009
40-Individual Corre	O-Operations	Z-Other	50-412/1999009
42-No action planne	O-Operations	Z-Other	50-412/1999009

## Management and Supervision ER

Number of items: 0

Percent of total: 0

## Management and Supervision LER

Number of items: 2

Percent of total: 1.23

48-Audits or proble	M-Mechanical	P-Procedure Dev	50-412/199900200
41-Action not begun	E-Electrical	M-Maint / Repair	50-412/199900500

## 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: 17

Percent of total: 10.49

12-Procedure techni	G-Engineering	G-Design	50-412/1998009
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Page: 2 Date:03/17/2000

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## Procedures and Reference Document IR

Number of items: 17

Percent of Total: 10.49

12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-412/1998011
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999001
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999001
14-Document develop	P-Procedure Writers	P-Procedure Dev	50-412/1999003
13-Procedure has hu	D-Emergency Plannin	D-Emergency Drill	50-412/1999005
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999006
13-Procedure has hu	G-Engineering	G-Design	50-412/1999006
11-No procedure / r	P-Procedure Writers	P-Procedure Dev	50-412/1999007
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-412/1999007
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-412/1999008
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-412/1999009

## Human Factors Information System Report

13-Procedure has hu P-Procedure Writers P-Procedure Dev 50-412/1999009  
 12-Procedure techni P-Procedure Writers P-Procedure Dev 50-412/1999301  
 13-Procedure has hu P-Procedure Writers P-Procedure Dev 50-412/1999301

## Procedures and Reference Document ER

Number of items: 1  
 Percent of total: .62  
 12-Procedure techni P-Procedure Writers P-Procedure Dev 50-412/1999301

## Procedures and Reference Document LER

Number of items: 9  
 Percent of total: 5.56  
 12-Procedure techni O-Operations T-Testing 50-412/199900100  
 12-Procedure techni M-Mechanical F-Modification 50-412/199900300  
 12-Procedure techni I-Instrumentation & P-Procedure Dev 50-412/199900400  
 12-Procedure techni O-Operations B-Bal of Plant Ops 50-412/199900700  
 12-Procedure techni M-Mechanical M-Maint / Repair 50-412/199900700  
 12-Procedure techni M-Mechanical S-Surveillance 50-412/199900700  
 14-Document develop E-Electrical T-Testing 50-412/199900800  
 13-Procedure has hu P-Procedure Writers P-Procedure Dev 50-412/199900900  
 12-Procedure techni I-Instrumentation & C-Calibration 50-334/199900500

## Training IR

Number of items: 7  
 Percent of total: 4.32  
 05-Individual knowl M-Mechanical M-Maint / Repair 50-412/1998011  
 05-Individual knowl D-Emergency Plannin D-Emergency Drill 50-412/1999005  
 05-Individual knowl D-Emergency Plannin D-Emergency Drill 50-412/1999005  
 02-Training LTA T-Training D-Emergency Drill 50-412/1999005  
 02-Training LTA T-Training O-Control Room Ops 50-412/1999007  
 02-Training LTA T-Training Z-Other 50-412/1999301  
 02-Training LTA T-Training Z-Other 50-412/1999301

## Training ER

Number of items: 0  
 Percent of total: 0

## Training LER

Number of items: 3  
 Percent of total: 1.85  
 02-Training LTA M-Mechanical F-Modification 50-412/199900300  
 Page: 3 Date:03/17/2000

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## Training LER

Number of items: 3  
 Percent of Total: 1.85  
 05-Individual knowl O-Operations O-Control Room Ops 50-412/199900900  
 05-Individual knowl O-Operations O-Control Room Ops 50-412/199900900

## Work Factors IR

Number of items: 62  
 Percent of total: 38.27  
 81-Work Package Qua G-Engineering G-Design 50-412/1998009  
 83-Work practice or G-Engineering G-Design 50-412/1998009  
 83-Work practice or G-Engineering G-Design 50-412/1998009  
 84-Non-conserv. dec G-Engineering M-Maint / Repair 50-412/1998009  
 83-Work practice or G-Engineering Z-Other 50-412/1998009  
 83-Work practice or G-Engineering Z-Other 50-412/1998009  
 83-Work practice or G-Engineering Z-Other 50-412/1998009  
 83-Work practice or O-Operations Z-Other 50-412/1998011  
 92-Self check LTA M-Mechanical M-Maint / Repair 50-412/1998011  
 83-Work practice or M-Mechanical M-Maint / Repair 50-412/1998011  
 84-Non-conserv. dec O-Operations M-Maint / Repair 50-412/1998011  
 93-Awareness or att O-Operations B-Bal of Plant Ops 50-412/1999001  
 91-Verification / p O-Operations B-Bal of Plant Ops 50-412/1999001  
 82-Briefing, prep. O-Operations B-Bal of Plant Ops 50-412/1999001  
 92-Self check LTA O-Operations B-Bal of Plant Ops 50-412/1999001  
 88-Tag outs LTA O-Operations M-Maint / Repair 50-412/1999001  
 88-Tag outs LTA O-Operations M-Maint / Repair 50-412/1999001  
 84-Non-conserv. dec Z-Other Z-Other 50-412/1999001  
 84-Non-conserv. dec Z-Other Z-Other 50-412/1999001  
 84-Non-conserv. dec Z-Other Z-Other 50-412/1999001  
 94-Log-keeping or r O-Operations O-Control Room Ops 50-412/1999001

## Human Factors Information System Report

84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-412/1999003
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-412/1999003
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-412/1999003
83-Work practice or	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
85-Team interaction	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
83-Work practice or	W-Work Control / Sc	M-Maint / Repair	50-412/1999003
85-Team interaction	G-Engineering	M-Maint / Repair	50-412/1999003
85-Team interaction	M-Mechanical	M-Maint / Repair	50-412/1999003
83-Work practice or	G-Engineering	F-Modification	50-412/1999003
83-Work practice or	G-Engineering	F-Modification	50-412/1999003
83-Work practice or	G-Engineering	F-Modification	50-412/1999003
83-Work practice or	G-Engineering	F-Modification	50-412/1999003
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-412/1999005
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-412/1999005
94-Log-keeping or r	O-Operations	V-Troubleshooting	50-412/1999005
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-412/1999005
93-Awareness or att	G-Engineering	G-Design	50-412/1999005
81-Work Package Qua	G-Engineering	G-Design	50-412/1999005
93-Awareness or att	D-Emergency Plannin	A-Administrative	50-412/1999005
91-Verification / p	O-Operations	Z-Other	50-412/1999006
93-Awareness or att	P-Procedure Writers	A-Administrative	50-412/1999006
94-Log-keeping or r	O-Operations	B-Bal of Plant Ops	50-412/1999006
81-Work Package Qua	G-Engineering	F-Modification	50-412/1999006

Page: 4 Date:03/17/2000

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

Number of items: 62

Percent of Total: 38.27

84-Non-conserv. dec	O-Operations	F-Modification	50-412/1999006
84-Non-conserv. dec	I-Instrumentation &	F-Modification	50-412/1999006
84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-412/1999007
86-Work untimely	G-Engineering	T-Testing	50-412/1999007
84-Non-conserv. dec	O-Operations	V-Troubleshooting	50-412/1999007
84-Non-conserv. dec	G-Engineering	V-Troubleshooting	50-412/1999007
83-Work practice or	C-Chemistry	B-Bal of Plant Ops	50-412/1999007
84-Non-conserv. dec	C-Chemistry	B-Bal of Plant Ops	50-412/1999007
84-Non-conserv. dec	O-Operations	S-Surveillance	50-412/1999008
89-Housekeeping LTA	U-Unknown	Q-Fire Protection	50-412/1999009
81-Work Package Qua	G-Engineering	F-Modification	50-412/1999009
81-Work Package Qua	T-Training	Z-Other	50-412/1999301
93-Awareness or att	T-Training	Z-Other	50-412/1999301
93-Awareness or att	T-Training	Z-Other	50-412/1999301
93-Awareness or att	T-Training	Z-Other	50-412/1999301
93-Awareness or att	T-Training	Z-Other	50-412/1999301
93-Awareness or att	T-Training	A-Administrative	50-412/1999301
93-Awareness or att	T-Training	A-Administrative	50-412/1999301

## Work Factors ER

Number of items: 2

Percent of total: 1.23

81-Work Package Qua	T-Training	Z-Other	50-412/1999301
93-Awareness or att	T-Training	Z-Other	50-412/1999301

## Work Factors LER

Number of items: 8

Percent of total: 4.94

93-Awareness or att	O-Operations	T-Testing	50-412/199900100
92-Self check LTA	O-Operations	T-Testing	50-412/199900100
81-Work Package Qua	G-Engineering	D-Emergency Drill	50-412/199900400
84-Non-conserv. dec	G-Engineering	P-Procedure Dev	50-412/199900800
93-Awareness or att	O-Operations	O-Control Room Ops	50-412/199900900
93-Awareness or att	O-Operations	O-Control Room Ops	50-412/199900900
92-Self check LTA	O-Operations	O-Control Room Ops	50-412/199900900
92-Self check LTA	O-Operations	O-Control Room Ops	50-412/199900900

Page: 5 Date:03/17/2000

[End of File for Plant Docket 412 (1999)]