# **1998 Human Factors Information System Report for Plant Docket 382**

Combined IR/ER/LER Report Docket: 50-382 WATERFORD 3 Total Number of Hits in Date Range: 109 From 01/01/1998 to 12/31/1998 2x National Average: 255 Details Department Work Type Docket/Report Communications IR Number of items: 3 Percent of total: 2.75 52-Communication un G-Engineering A-Administrative 50-382/1997025 G-Engineering 53-Communication LT D-Emergency Plannin D-Emergency Drill 50-382/1997028 D-Emergency Plannin 53-Communication LT O-Operations D-Emergency Drill 50-382/1998012 0-Operations Communications ER Number of items: 0 Percent of total: 0 Communications LER Number of items: 7 Percent of total: 6.42 50-382/199800300 53-Communication LT G-Engineering F-Modification G-Engineering 53-Communication LT E-Electrical F-Modification 50-382/199800300 E-Electrical F-Modification 50-382/199800300 54-No communication G-Engineering G-Engineering 54-No communication E-Electrical F-Modification 50-382/199800300 E-Electrical 53-Communication LT E-Electrical M-Maint / Repair 50-382/199800900 E-Electrical 53-Communication LT O-Operations P-Procedure Dev 50-382/199801300 G-Engineering 53-Communication LT Z-Other M-Maint / Repair 50-382/199801500 M-Mechanical 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: 1 Percent of total: .92 M-Maint / Repair 75-Work area LTA E-Electrical 50-382/199800900 Management and Supervision IR Number of items: 12 Percent of total: 11.01 43-Operating Experi G-Engineering Z-Other 50-382/1997025 41-Action not begun G-Engineering Z-Other 50-382/1997025 41-Action not begun G-Engineering 50-382/1997025 Z-Other Page: 1 Date:01/13/1999 Combined IR/ER/LER Report Docket: 50-382 WATERFORD 3 Total Number of Hits in Date Range: 109 From 01/01/1998 to 12/31/1998 2x National Average: 255 Work Type Details Department Docket/Report Management and Supervision IR Number of items: 12 Percent of Total: 11.01 41-Action not begun G-Engineering G-Design 50-382/1997025 32-Supervision / co O-Operations B-Bal of Plant Ops 50-382/1997026

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40-Individual Corre O-Operations 41-Action not begun G-Engineering 41-Action not begun O-Operations 40-Individual Corre G-Engineering 40-Individual Corre G-Engineering 41-Action not begun O-Operations 36-Scheduling and p W-Work Control / Sc	Z-Other Z-Other Z-Other Z-Other Z-Other Z-Other Z-Other M-Maint / Repair	50-382/1997026 50-382/1997027 50-382/1997028 50-382/1998006 50-382/1998008 50-382/1998009 50-382/1998012
Management and Supervision ER Number of items: 0 Percent of total: 0		
Management and Supervision LER Number of items: 1 Percent of total: .92 32-Supervision / co O-Operations	O-Control Room Ops	50-382/199800200
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: 1 Percent of total: .92 21-Staffing LTA 0-Operations	O-Control Room Ops	50-382/199800200
Procedures and Reference Document IR Number of items: 17 Percent of total: 15.6		
12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 11-No procedure / r G-Engineering 12-Procedure techni P-Procedure Writers 12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 12-Procedure techni G-Engineering 13-Procedure techni G-Engineering 13-Procedure has hu P-Procedure Writers 13-Procedure has hu P-Procedure Writers	G-Design G-Design G-Design G-Design G-Design P-Procedure Dev P-Procedure Dev P-Procedure Dev	50-382/1997025 50-382/1997025 50-382/1997028 50-382/1998006 50-382/1998008 50-382/1998008 50-382/1998008 50-382/1998008 50-382/1998008 50-382/1998018 50-382/1998014 50-382/1998014
<pre>11-No procedure / r G-Engineering Page: 2 Date:01/13/199 Combined IR/ER/LER Report</pre>	G-Design 99	50-382/1998014
Docket: 50-382 WATERFORD 3		
Total Number of Hits in Date Range From 01/01/1998 to 12/31/1998 2x National Average: 255	9: 109	
Details Department	Work Type	Docket/Report
Procedures and Reference Document IR Number of items: 17 Percent of Total: 15.6		
11-No procedure / r G-Engineering 11-No procedure / r G-Engineering	G-Design G-Design	50-382/1998014 50-382/1998014
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: .92 12-Procedure techni Z-Other	Z-Other	50-382/199801700
Training IR Number of items: 5 Percent of total: 4.59 06-Simulator fideli T-Training 02-Training LTA T-Training 05-Individual knowl O-Operations 05-Individual knowl O-Operations 02-Training LTA T-Training	D-Emergency Drill Z-Other O-Control Room Ops O-Control Room Ops Z-Other	50-382/1998014 50-382/1998014

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Number of items: ( Percent of total: (			
Training LER Number of items: 3 Percent of total: 2			
	0-Operations	S-Surveillance	50-382/199801200
02-Training LTA	0-Operations	S-Surveillance	50-382/199801200
01-No Training	Z-Other	Z-Other	50-382/199801700
Work Factors IR Number of items: 5			
Percent of total: 4 91-Verification / p		P Pal of Dlant Ong	50-382/1997024
84-Non-conserv. dec	-	B-Bal of Plant Ops G-Design	50-382/1997024
83-Work practice or		G-Design	50-382/1997025
83-Work practice or		G-Design	50-382/1997025
83-Work practice or 81-Work Package Qua		G-Design G-Design	50-382/1997025 50-382/1997025
81-Work Package Qua		G-Design	50-382/1997025
83-Work practice or		G-Design	50-382/1997025
81-Work Package Qua		G-Design G-Design	50-382/1997025 50-382/1997025
83-Work practice or 83-Work practice or		G-Design	50-382/1997025
81-Work Package Qua	5	G-Design	50-382/1997025
-	G-Engineering	T-Testing	50-382/1997025
83-Work practice or 81-Work Package Qua		G-Design G-Design	50-382/1997025 50-382/1997025
Page: 3		5	50-502/1997025
Docket: 5 Total Number o From 01/01/199	IR/ER/LER Report 0-382 WATERFORD 3 of Hits in Date Range 18 to 12/31/1998	: 109	
2x National Av	-		
Details	Department	Work Type	Docket/Report
Work Factors IR Number of items: 5	1		
Percent of Total: 4			
81-Work Package Qua	6.79 G-Engineering	G-Design	50-382/1997025
81-Work Package Qua 81-Work Package Qua	6.79 G-Engineering G-Engineering	G-Design	50-382/1997025
81-Work Package Qua	6.79 G-Engineering G-Engineering G-Engineering	-	,
81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua	6.79 G-Engineering G-Engineering G-Engineering G-Engineering G-Engineering	G-Design G-Design G-Design G-Design	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025
81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 83-Work practice on	6.79 G-Engineering G-Engineering G-Engineering G-Engineering G-Engineering O-Operations	G-Design G-Design G-Design G-Design M-Maint / Repair	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997026
81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 83-Work practice or 93-Awareness or att	6.79 G-Engineering G-Engineering G-Engineering G-Engineering G-Engineering O-Operations O-Operations	G-Design G-Design G-Design G-Design M-Maint / Repair B-Bal of Plant Ops	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997026 50-382/1997026
81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 83-Work practice on	6.79 G-Engineering G-Engineering G-Engineering G-Engineering G-Engineering CO-Operations O-Operations O-Operations	G-Design G-Design G-Design G-Design M-Maint / Repair	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997026
81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 83-Work practice on 93-Awareness or att 91-Verification / p 83-Work practice on 91-Verification / p	6.79 G-Engineering G-Engineering G-Engineering G-Engineering O-Operations O-Operations O-Operations O-Operations O-Operations O-Operations	G-Design G-Design G-Design M-Maint / Repair B-Bal of Plant Ops B-Bal of Plant Ops B-Bal of Plant Ops O-Control Room Ops	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997026
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81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 83-Work practice on 93-Awareness or att 91-Verification / p 83-Work practice on 91-Verification / p	6.79 G-Engineering G-Engineering G-Engineering G-Engineering O-Operations O-Operations O-Operations O-Operations O-Operations O-Operations O-Operations O-Operations	G-Design G-Design G-Design M-Maint / Repair B-Bal of Plant Ops B-Bal of Plant Ops B-Bal of Plant Ops O-Control Room Ops	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997026
81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 81-Work Package Qua 83-Work practice on 93-Awareness or att 91-Verification / p 83-Work practice on 91-Verification / p 91-Verification / p 83-Work practice on 83-Work practice on 89-Housekeeping LTZ 84-Non-conserv. dec	6.79 G-Engineering G-Engineering G-Engineering G-Engineering G-Engineering O-Operations O-Operations O-Operations O-Operations O-Operations O-Operations G-Engineering M-Mechanical I-Instrumentation &	G-Design G-Design G-Design G-Design M-Maint / Repair B-Bal of Plant Ops B-Bal of Plant Ops B-Bal of Plant Ops O-Control Room Ops G-Design K-Housekeeping V-Troubleshooting	50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997025 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997026 50-382/1997027 50-382/1997028 50-382/1997028
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#### Human Factors Information System Report

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Number of items: 0
Percent of total: 0
Work Factors LER
 Number of items: 7
Percent of total: 6.42
83-Work practice or 0-Operations0-Control Room Ops50-382/19980020093-Awareness or att 0-Operations0-Control Room Ops50-382/19980020092-Self check LTA G-EngineeringF-Modification50-382/19980030084-Non-conserv. dec E-ElectricalM-Maint / Repair50-382/19980090084-Non-conserv. dec E-ElectricalM-Maint / Repair50-382/19980090084-Non-conserv. dec O-OperationsS-Surveillance50-382/199801200
                                      Date:01/13/1999
               Page: 4
                Combined IR/ER/LER Report
               Docket: 50-382 WATERFORD 3
        Total Number of Hits in Date Range: 109
        From 01/01/1998 to 12/31/1998
        2x National Average: 255
                                                            Work Type
Details
                               Department
                                                                                             Docket/Report
Work Factors LER
 Number of items: 7
Percent of Total: 6.42
84-Non-conserv. dec O-Operations
                                                       S-Surveillance 50-382/199801200
                                    Date:01/13/1999
               Page: 5
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#### [End of File for Plant Docket 382 (1998)]