

best p1r1.doc

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## SPAR HRA Human Error Worksheet (Page 1 of 1) Best Case

Plant: \_\_\_\_\_ Initiating Event: \_\_\_\_\_ Sequence Number: \_\_\_\_\_ Basic Event Code: HEP-DIAG-SFPLPL

Basic Event Context: \_\_\_\_\_

Basic Event Description: \_\_\_\_\_

Does this task contain a significant amount of diagnosis activity? YES (start with Part I, p. 1) NO X (skip Part I, p. 1; start with Part II, p.

2) Why? \_\_\_\_\_

## Part I. DIAGNOSIS

A. Evaluate PSFs for the diagnosis portion of the task.

PSFs	PSF Levels	Multiplier for Diagnosis	If non-nominal PSF levels are selected, please note specific reasons in this column
Available Time	Inadequate time	P(failure) = 1.0	<b>Expansive time due to boil off and leakage ratio.</b>
	Barely adequate time <20 min	10	
	Nominal time $\approx$ 30 min	1	
	Extra time >60 min	0.1	
	Expansive time >24 hrs	0.01 X	
Stress	Extreme	5 X	<b>Stress extreme due to severe weather.</b>
	High	2	
	Nominal	1	
Complexity	Highly complex	5	<b>Complexity increased due to severe weather.</b>
	Moderately complex	2 X	
	Nominal	1	
	Obvious diagnosis	0.1	
Experience/Training	Low	10	
	Nominal	1 X	
	High	0.5	
Procedures	Not available	50	<b>Diagnostic procedures available.</b>
	Available, but poor	5	
	Nominal	1	
	Diagnostic/symptom oriented	0.5 X	
Ergonomics	Missing/Misleading	50	
	Poor	10	
	Nominal	1 X	
	Good	0.5	
Fitness for Duty	Unfit	P(failure) = 1.0	
	Degraded Fitness	5	
	Nominal	1 X	
Work Processes	Poor	2	<b>Crew and procedures that interact well in a good facility.</b>
	Nominal	1	
	Good	0.8 X	

B. Calculate the Diagnosis Failure Probability

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(2) Otherwise,	Time	Stress	Complexity	Experience/ Training	Procedures	Ergonomics	Fitness for Duty	Work Processes	
Diagnosis: 10E-2x <u>01</u>	<u>x5</u>	<u>x2</u>	<u>x1</u>	<u>x.5</u>	<u>x1</u>	<u>x1</u>	<u>x.8</u>	<u>=4E-4</u>	
				4E-4 x .05 = 2E-5				Diagnosis	
				Combines diagnostics with HEP for walkdown	HEP-WLKDWN-DEPEN (5e-2)			Failure Probability	

