

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

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

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

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

Does this task contain a significant amount of diagnosis activity? YES X (start with Part I, p. 1) NO (skip Part I, p. 1; start with Part II, p. 2)

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	Extra time is available due to boil off and leakage ratio.
	Barely adequate time <20 min	10	
	Nominal time $\approx$ 30 min	1	
	Extra time >60 min	0.1	
	Expansive time >24 hrs	0.01	
Stress	Extreme	5	Stress elevated due to control room alarms.
	High	2	
	Nominal	1	
Complexity	Highly complex	5	
	Moderately complex	2	
	Nominal	1	
	Obvious diagnosis	0.1	
Experience/Training	Low	10	No training.
	Nominal	1	
	High	0.5	
Procedures	Not available	50	No procedures.
	Available, but poor	5	
	Nominal	1	
	Diagnostic/symptom oriented	0.5	
Ergonomics	Missing/Misleading	50	
	Poor	10	
	Nominal	1	
	Good	0.5	
Fitness for Duty	Unfit	P(failure) = 1.0	
	Degraded Fitness	5	
	Nominal	1	
Work Processes	Poor	2	
	Nominal	1	
	Good	0.8	

B. Calculate the Diagnosis Failure Probability

11/48

(2) Otherwise,	Time	Stress	Complexity	Experience/ Training	Procedures	Ergonomics	Fitness for Duty	Work Processes	
Diagnosis: 10E-2x <sub>1</sub>	x <sub>2</sub>	x <sub>1</sub>	x <sub>10</sub>	x <sub>50</sub>	x <sub>1</sub>	x <sub>1</sub>	x <sub>1</sub>	x <sub>1</sub>	=1*
						*Analyst judgement .5			Diagnosis Failure Probability

