8404130318 840406 PDR ADOCK 05000361 PDR PDR

TABLE 3.3-4 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIP VALUES

FUNCTIONAL UNIT		AL UNIT	TRIP VALUE	VALUES	
9.	CONTROL ROOM ISOLATION (CRIS)				
	a.	Manual CRIS (Trip Buttons)	Not Applicable	Not Applicable	
	b.	Manual SIAS (Trip Buttons)	Not Applicable	Not Applicable	
	c.	Airborne Radiation			
		i. Particulate/Iodine	≤ 5.7 x 10 ⁴ cpm**	<u><</u> 6.0 x 10⁴ cpm**	
		ii. Gaseous	\leq 3.8 x 10 ² cpm**	<u><</u> 4.0 x 10 ² cpm ^{★★}	
	d.	Automatic Actuation Logic	Not Applicable	Not Applicable	
10.	TOXIC GAS ISOLATION (TGIS)				
	a.	Manual (Trip Buttons)	Not Applicable	Not Applicable	
	b.	Chlorine – High	<u>≤</u> 6.0 ppm	<u><</u> 6.2 ppm	
	С.	Ammonia - High	<u><</u> 42.4 ppm	<u><</u> 44.7 ppm	
	d.	Butane/Propane - High	<u>≤</u> 84.8 ppm	<u><</u> 89.3 ppm	
	е.	Carbon Dioxide - High	≤ 4061.3 ppm	<u><</u> 4275.0 ppm	
	f.,	Automatic Actuation Logic	Not Applicable	Not Applicable	

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ATTACHMENT A

(Existing Specification)

is justified based on the rupture of the largest tank, however, a continuous slow release could lead to a control room concentration just reaching the 15 ppm level. Therefore, the allowed value for chlorine has been limited to 15 ppm. Similarly for aqueous ammonia, a setpoint in excess of the toxicity limit is justified based on the largest spill. Again the allowed value is limited to the two minute toxicity limit of 100 ppm. For hydrocarbons the allowed value is restricted to 200 ppm which is below the toxicity limit (750 ppm) for propane and butane which were analyzed in FSAR Section 6.4. This provides an allowance for other hydrocarbons which may have lower setpoints.

For carbon dioxide, the analysis shows that even with no control room isolation, the maximum control room concentration is 11,000 ppm. Since the two minute toxicity limit for carbon dioxide is 50,000 ppm, this monitor has been deleted from the Technical Specifications.

Since the revised setpoints results in a control room concentration during the first two minutes after the detector response which is lower than the toxicity limit, adequate protection is provided for the control room operator. In addition, there is a lower probability of spurious detector actuation which would lead to a disruption of normal plant operation. This is viewed as a positive measure to minimize unwarranted distractions to plant personnel.

Safety Evaluation

The proposed changes discussed above shall be deemed to involve a significant hazards consideration if positive findings are made in any of the following areas:

1. Will operation of the facility in accordance with these proposed changes involve a significant increase in the probability or consequences of an accident previously evaluated?

Response: No

The probability of occurrence of a toxic chemical release will be unaffected by the proposed change to the Technical Specifications since the function of the detectors is to mitigate the consequences of accidents rather than prevent an accident. The consequences of a postulated accident will not be increased over that previously analyzed since the new detector setpoints will still provide the operators with 2 minutes of warning prior to the time that the toxicity limit is reached inside the control room. This is sufficient time for the operators to don self-contained breathing apparatus.

2. Will operation of the facility in accordance with these proposed changes create the possibility of a new or different kind of accident from any accident previously evaluated?

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ATTACHMENT B

(Proposed Specification)

TABLE 3.3-4 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIP VALUES

RE-U	FUNC	CTIONAL_UNIT	TRIP VALUE	ALLOWABLE VALUES
VIT 3	9.	CONTROL ROOM ISOLATION (CRIS)		
		a. Manual CRIS (Trip Buttons)	Not Applicable	Not Applicable
		b. Manual SIAS (Trip Buttons)	Not Applicable	Not Applicable
3,		c. Airborne Radiation		
		i. Particulate/lodine	<u><</u> 5.7 x 10 ⁴ cpm**	≤ 6.0 x 10 ⁴ cpm ^{**}
		ii. Gaseous	≤ 3.8 × 10 ² cpm**	≤ 4.0 x 10 ² cpm**
ί 4 3-		d. Automatic Actuation Logic	Not Applicable	Not Applicable
-24	10.	TOXIC GAS ISOLATION (TGIS)		
		a. Manual (Trip Buttons)	Not Applicable	Not Applicable
		b. Chlorine - High	γpm	∕5.0 <u><</u> 5.2 ppm
		c. Ammonia - High	< 12.1 -ppm	/ 00 <u><</u> 447 ppm
		d. Butane/Propane - High	173 <u>≤-84-8</u> ppm	¢9:3 ṕpm
		e Carbon Dioxide High e deleted	-4061.3 ppm Q deleted	-4275 a pome deleted
NON		 Automatic Actuation Logic Contraction 	Not Applicable	Not Applicable
ام در				
1961	•			