### PI 24.52-1

## Chemistry - PI 24

#### ENVIRONMENTAL MONITORING AND CONTROL - BHWP

### Objectives:

- 1. Briefly describe, by drawing a simplified flowsheet and discussing the equipment, how H<sub>2</sub>S and heat are removed from the effluent water from the G-S process.
- 2. State the purpose of adding propane to the flare stack of the BHWP.
- 3. Explain why SO<sub>2</sub> monitors as well as H<sub>2</sub>S monitors are located around the BHWP by giving two sources of SO<sub>2</sub> at BNPD.
- 4. Given a 1980 or later NGD Environmental Summary, briefly describe the sulphur emission performance for both water and airborne emission at BNPD (for the Summary year) centering on <a href="mailto:limits">limits</a> and <a href="mailto:excursions">excursions</a>.

#### References:

- 1. RNTC Course 438 Lesson 438.21-1, pages 4-8; 11-12.
- 2. NGD Annual Environmental Summary (1980 or later), RMEP.

### Here's What To Do:

- 1. Obtain the two references and use them while you fill in the three worksheets.
- 2. Discuss your worksheet results with a colleague; if you have problems check with the course manager.
- 3. Have the course manager initial your worksheets.

			WO	RKSHE.	ET #1				
1.	Draw a removed	simplif from G	ied diag -S proce	gram s ss ef:	showing fluent	how water	heat and (waste).	H <sub>2</sub> S	are
2.	Explain	the pu	rpose of	each	vesse1	•			
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			Course	Manag	jer:				:

WORKSHEET	#	2
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1.	Whv	is	propane	added	to	the	BNPD	flare	stack?

2. Give two sources of SO2 from BNPD.

Date:		
Course	Manager:	

# WORKSHEET #3

1.	BNPD	Sulphur Emission
	(a)	To Air - Limits:
		- Performance:
		I of Lormando.
	(p)	To Water - Limits:
		- Performance:
	, .	
	(c)	Excursions: (give extent and reasons and corrective actions).
		Date:
		Course Manager:
		P.D. Dodgson

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