#### 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 limits and excursions.

#### 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.

## PI 24.52-1

				WO:	RKSHE	ET #1				
1.	Draw a removed	simpl from	ified G-S p	diag proces	ram : ss ef	showing fluent	how water	heat and (waste).	H <sub>2</sub> S	are
2.	Explain	the p	purpos	se of	each	vesse1	l <b>.</b>			
									٠	
			Da	ıte:						
			Co	urse	Mana	ger:				

# WORKSHEET #2

1	TaTles -	4		-44-4	+~	+1	DAIDE	£1 ~~~	a + = alc 2
1.	WUA	15	propane	aaaea	τo	tne	RNED	Ilare	Btacki

Give two sources of SO<sub>2</sub> from BNPD.

Date: \_\_\_\_\_\_

## WORKSHEET #3

1.	BNPD	Sulphur Emission
	(a)	To Air - Limits:
		- Performance:
	(b)	To Water - Limits:
	• •	
		- Performance:
	( - \	
	(c)	Excursions: (give extent and reasons and corrective actions).
		Date:
		Course Manager:

P.D. Dodgson