04-16-548546

State of Wisconsin Substance Release Notification Form Department of Natural Resources Form 4400-91 (Rev. 12-04, e-form) 24-Hour Emergency Hotline Number: 1-800-943-0003

Page 1 of 2

Date & Military Time of Incident: 09/06/2006 1800hrs			Date & Military Time Reported: 09/06/2006 1834hrs			Spill File # nor09062006_01 BRRTS #		
Person Reporting:			Representing:			Phone # 715-398-3533		
Liz Lundmark			Murphy Oil Superior Refinery			Fax #		
Responsible Party (RP) / S	niller:		RP Decision Based On:			Phone # 715-398-3533		
Murphy Oil Superior Refine		I KI D	Rr Decision based On:			Fax #		
RP Address:	-,				City State Zip Code			
2407 Stinson Ave					Superior WI 54880-			
RP Contact Name & Title:					Phone # 715-398-3533			
Liz Lundmark					Fax#			
Substance Involved:		Amou	unt & Units Released:	t	Amount & Units Recovered:			
Sulfur Dioxide		unkin	3000		none			
Solid Semiso		Liquid	☐ Gas Colo	r: C)dor:			
Exact Location Of Inciden	t: (including	street name,	, bldg. #, mileage, etc.)		Facility Name / Property Owner:			
2407 Stinson Avenue					Murphy Oil			
M C:4	mahir	Corme			Y-24-J-W			
☐ City ☐ Village ☐ Tow Superior	nsnip	County Douglas			ude/Longitude			
DNR Region:						deg. ' '', deg. ' '' Weather Conditions:		
NOR		N1/4 1/4.	Sec 3 5 Y 9 R14	E XW	1		y, 70 degrees, light wind	
Causa of Incidents								
unknown; power malfunctio	n caused loss	of controls, lo	oss of steam to refinery	- porti	0~5	of retru	arry shut down	
			,	•				
Spilled Substance Impa	ct To: Spi	ll Cause and/	or Site:			Action Ta	aken By Spiller:	
(check X all that apply)		Ag Coop/Foo			Cleanup Method:			
⊠ Air □ Por			ty Railroad Facility		Absorbent			
Concrete/Asphalt Potential Construction, Excavation, Wrecking, Quan								
Contained/Recovered			Station/Garage/Auto Dea	ıler/Repair	Shop			
		Hydraulic Lin		71	٦_		nment	
			cility Paper Mill (Name:	actor Hired	
			ninal/Tank Farm/Oil Job	ober/ w noie	saler	Name	•	
			rty (home/farm)	chool etc.)		Monit	or	
			perty (city, state, church, school, etc.) tion Accident, Fuel Tank Spill			Monitor No Action Needed Disaccess to		
			portation Accident, Fuel Tank Spin portation Accident, Load Spill			No Action Needed Dispersed to No Action Taken		
			y Co. Power Generating/Transfer Facility			Waste Destination:		
Other:						Other: System repair		
Talanda O Day May 10	1) Tr	In An Emperation O		Var N	No Det	antials DVas DVa	
Injuries? Yes No If yes how many? Has An Evacuation Occurred? Yes No Potential? Yes No Are There Any Resource Damages? Yes No Potential What Kind? possible health issue for asthmatics								
Are There Any Resource I		Yes No					e for asthmatics	
Other Agencies Notified:	check first c			nns, if on t	he scer	ne)		
Fire Department		Local DNR	□ □ EPA				Incident Commander:	
Local Law Enforcem		Div. Emerg.		Resp Ctr 80				
LEPC or Local Emer		Coast Guard		trec 800-42	24-9300	0	Phone #	
Level A/Level B Tea	m 📙 🗀	DHFS 608-2	258-0099					
Prepared By:	Phone # 608	-267-7450	Date: 09/06/2006				s No Date:	
Jane Xiong							es No Date:	
Person Notified:	Phone # 715	-392-7992	Date: 09/06/2006		acket S	sent? \(\sum Yes	No Date:	
John Krull Investigated Ry			Time: 1840	To:	1	EDD Tr	- DAL D	
Investigated By:	Sig	311.	Date:	Case #		о ЕКР ∐Ү€	es Mo Date:	
Spill Coordinator Signoff:			Date:			ent? _\	No Date:	
Norman Dung			9/22/06				No Date:	
								
See Additional Comments On Reverse (Please, print page 2 of 2)								

Date and Military Time Of Incident:	Responsible Party:
hrs	
Additional Comments:	
·	• .
•	
1	
•	
Case Activity Report: Yes No CAR#:	(Please, attach copy of all CAR and other documentation)
	(Please, attach copy of all CAR and other documentation)
Case Activity Report: Yes No CAR#: Enforcement Action: Yes No (Explain Below)	(Please, attach copy of all CAR and other documentation)
Enforcement Action: Yes No (Explain Below)	(Please, attach copy of all CAR and other documentation)
Enforcement Action: Yes No (Explain Below)	
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Enforcement Action: Yes No (Explain Below)	
Enforcement Action: Yes No (Explain Below)	



9/6/2006		Applicable Requirement	Pollutant				
9/6/2006	5.0		1 Onuture	Emissions			
		Applicable Limitation Reference: 2002 Consent Decree IV.B.16.d.: Estimated quantity of SO2 that was emitted during an AG or TG event	Sulfur dioxide	430.4 Pounds			
		Applicable Condition Reference: None: NA					
9/6/2006	0.0	Applicable Limitation Reference: 2002 Consent Decree III.A.3.: < 500 lbs SO2 (24 hr avg)	Sulfur dioxide	NA			
		Applicable Condition Reference: III.3.: 3."AG Flaring Incident" shall mean the continuous or intermi Gas in a Flaring Device that results in the emission of SO2 etwenty-four (24) hour period; provided, however, for the purcontinuously for more than a 24-hour period will constitute of Incident shall be determined from its initial commencement Incident may entail the excess SO2 emissions from multiple is associated with one common event.	equal to, or in excess of, five-hundring or this Consent Decree, an ingue (1) AG Flaring Incident. The dunner the time of its final termination	ed (500) pounds in any ncident which extends uration of an AG Flaring n. An AG Flaring			
9/6/2006 1.5	5 Applicable Limitation Reference: 816009590-P01 Sulfur dioxide I.E.2.b.(3): (3) The permittee shall at all times that amine acid gas is routed to the SRU and TGTU operate the SRU and TGTU.		NA				
	Applicable Condition Reference: None: NA						
9/6/2006 7.0	Applicable Limitation Reference: 816009590-P01 Federal Hazardous I.M.8.a.(2): Pollutants (FHAPs) (2) 500 ppmv (dry basis) carbon monoxide HAPs		, NA				
	Applicable Condition Reference: None: NA						
		7 hours over FCCU 500 ppm CO limit					
9/6/2006	0.0	Applicable Limitation Reference: 816009590-P01 I.M.3.a.(1): (1) 20% opacity or number 1 on the Ringlemann chart.	Visible emissions	NA			
	Applicable Condition Reference: I.M.3.b.(1): (1) The permittee shall comply with the requirements of M.2.b.(2), (3), and (4) at all times. [s. NR 431.05, Wis. Adm. Code]						
	34 six-minute periods over state 20% opacity limit.						
9/6/2006		Applicable Limitation Reference: 816009590-P01 I.M.8.a.(1): (1) 1.0 pounds particulate matter per 1000 pounds coke burn Note: Calculate coke burn-off lbs per NR 440.26(7). Compliance with the 1.0 lb of particulate per 1000 pounds coke burn emission limit shall be determined by EPA Method 5B or 5F.	Federal Hazardous Air Pollutants (FHAPs), Metal HAPs	NA			
		Applicable Condition Reference: None: NA					
		15 six-minunte periods over 30% MACT limit					



V (6)	Duration	1		
Date	(hours)	Applicable Requirement	Pollutant	Emissions
9/6/2006	25.0	Applicable Limitation Reference: 816009590-P01 I.E.2.a.(2):250: (1) NSPS: 250 ppmvd SO2 (12 hr avg)	Sulfur dioxide	NA
		Applicable Condition Reference: None: NA		
9/6/2006	13.0	Applicable Limitation Reference: 816009590-P01 I.E.2.a.(2):250: (1) NSPS: 250 ppmvd SO2 (12 hr avg)	Sulfur dioxide	NA
		Applicable Condition Reference: None: NA		
9/7/2006	0.0	Applicable Limitation Reference: 816009590-P01 I.A.1.a.(1): (1) 39.3 pounds/hour sulfur dioxide averaged over any 12-hour period	Sulfur dioxide	141.0 Pounds
		Applicable Condition Reference: I.A.1.b.(2): (2) The permittee shall comply with the most recent departn Approval shall be in writing only. [s. NR 417.05, Wis. Adm. Co. 10].		sulfide monitoring plan.
9/7/2006	0.1	Applicable Limitation Reference: 816009590-P01 I.A.1.a.(1): (1) 39.3 pounds/hour sulfur dioxide averaged over any 12-hour period	Sulfur dioxide	73.2 Pounds
		Applicable Condition Reference: None: NA		
9/6/2006	1.5	Applicable Limitation Reference: 816009590-P01 I.A.1.a.(1): (1) 39.3 pounds/hour sulfur dioxide averaged over any 12-hour period	Sulfur dioxide	2883.9 Pounds
		Applicable Condition Reference: None: NA		



Event Information for: Boiler System Failure

Start Date:

9/6/2006

Start Time (24-hr time): 17:45

End Date:

9/7/2006

End Time (24-hr time):

9:00 15.3

Duration (hours): Description:

Boiler System Failure

Cause:

Circuit breaker tripped on the UPS feeding the boiler house combustion control system

Comments:

A circuit breaker tripped on the UPS feeding the boiler house combustion control system causing the boilers to shut

down. The resulting process upsets due to lack of steam pressure caused exceedances of various limits.

Flaring: Low pressure compressor and acid gas flaring. Consent decree acid gas event.

SRU/TGTU: Exceeded 12 and 24 hour rolling SO2 average limits.

FCCU: 30% MACT opacity limit, 20% state opacity limit, and 500 ppm CO limit

Reporting Information:

Notification Date: 9/6/2006

Time (24-hr time): 17:45

Reported By: Liz Lundmark

Agencies Contacted:

1) Wisconsin Emergency Government - 1.800.943.0003

2) Douglas County Emergency Government, 715-395-1391

3) Wisconsin Department of Natural Resources, 715-365-8958

Name:

Jane Xiong

Name:

Kieth Kessler - message

Name: Neal Baudhuin - 9/7 message

Report Number: