Couvillion Group, LLC

MC 20 Hydrocarbon Pump-Off #2 Results Report

Document #: Couv-MC20-RPT-Doc-00011

7/8/19

Revision	Date	By	Check	Approve	Remarks
0	7/8/19	[redacted]			Initial Document

Summary:

Couvillion Group's Rapid Response Collection System initiated its second collection cycle on 4/23/2019 and completed the cycle on 4/30/2019 resulting in a collection duration of 7.9 days. Using the OSV Chloe Candies the collected hydrocarbon fluid recovered from the subsea oil containment vessels was taken to the Couvillion Dock in Venice, Louisiana. Dockside Transfer commenced on 5/3/2019, with 223.5 bbl of hydrocarbon fluids transferred to an onshore frac tank according to strap measurements. Over the next 5-day period water separated from the oil and was collected in the bottom of the frac tank. On the morning of 5/8/2019 Couvillion Group reconfirmed that 223.5 bbl of hydrocarbon fluid remained in the tank by strap measurement and transfer of fluids from the frac tank to transport trucks began. A total of 184.1 bbl of fluid was transferred from the Venice Yard to the Acadiana Oil Company in Berwick, Louisiana using two tank trucks. A total of 17.6 bbl of residual fluid (mostly water with some hydrocarbon) remained in the frac tank. Total fluids reconciliation was within -2.8%.

After measuring the BS&W content and taking specific gravity and temperature into account at the Acadiana Oil Company site, the net crude oil collected during this collection cycle was 181.6 bbl.

Procedures Followed:

Couvillion Group and the associated companies participating in the collection and transportation of hydrocarbon fluids from the MC-20 site to the Acadiana Oil Company site have compiled a set of procedures that are followed throughout the process. The MC20 Response Disposal Plan with associated documentation pertaining to custody transfer and hydrocarbon fluids measurements for this report are in Appendix I. Appendix II includes the NRC waste handling documentation.

Execution:

Offshore Collection of Hydrocarbon Fluids at MC 20 Site:

The Chloe Candies OSV moved in place on location at MC20 on 4/29/2019 at 15:29 hrs to begin pump off procedures. ROV's were launched on and shortly thereafter the hydraulic subsea pump and hoses were over boarded and at 17:40 on 4/30/19 they were connected to the offload outlets on the subsea oil storage containers on the Rapid Response System. Pumping commenced at 17:41 hrs on 4/30/2019 and ended at 21:09 hrs on 4/30/19. Fluid was sampled on the vessel every 20 minutes for field analysis to determine the estimated oil to water ratios until water breakthrough occurred and collection operations were then stopped. **A total of 246.3 bbl of hydrocarbon fluid was collected.** Upon pump off completion the hoses and pump are surfaced and flushed with saltwater that is sent to a filtration system for treatment and over boarding. A total of 255.1 bbl of treated saltwater was over boarded.

Vessel to Dockside Transfer

Upon arrival at the Couvillion Dock in Venice, Louisiana on 5/3/2019 hoses were run from the tanks on the vessel through a diaphragm pump which was on a Couvillion provided barge and then run to a 500 bbl frac tank. This pump-off process continued until all NPT tanks aboard the OSV Chloe Candies were empty (18:00 hrs on 5/3/2019). Tankermen from Team Services verified that the NPT tanks onboard the vessel are empty, then an NRC representative strapped the dockside frac tank to determine **the total quantity transferred which was 223.5 bbl.** With dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of 5 days before transfer of the oil to tank trucks.

Dockside Frac Tanks to Truck Transfers

On the morning of 5/8/2019 at 09:00 hrs frac tank transfers commenced. An initial measurement was taken to verify that 223.5 bbl of hydrocarbon fluids remained in the tank. A hose was then attached to the frac tanks and ran through a diaphragm pump into a tank truck. Pumping commenced and the first truck received 101.3 bbl of hydrocarbon fluids. The second tank truck was loaded with 82.8 bbl. At this time an NRC representative and a Couvillion Representative double checked all strap measurements in the trucks, and residual left in the frac tank (17.6 bbl). All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendices). Trucks were then released and begin transport to the Acadiana Oil Company site in Berwick, Louisiana.

Truck to Facility Transfer

Upon arrival at the Acadiana Oil Company site each truck enters a loading bay. Before any fluids are transferred an Acadiana Oil Representative straps their tank for an initial measurement and then transfer of fluid begins. While the pump off is underway an Acadiana Oil Company Representative takes three fluid samples during the transfer process from the pump outlet from which hydrocarbon fluid is flowing. These samples are taken at the beginning of the transfer, mid-way through the transfer, and at the end of the transfer process. In other words when the tank truck volume is full, half-full and nearly empty. These readings are referred to as top, middle and bottom readings, respectively. These (3) samples are mixed together and then shaken vigorously to ensure a full mixture. The sample is then taken to their testing area where tests are run to determine: % BS&W content, temperature, and specific gravity. Temperature and specific gravity are recorded via the use of a hydrometer, while BS&W content is determined via the use of a centrifuge with a 50/50 mixture of the sample with mineral spirits. Once all sampling is completed and recorded (see copy in Appendix I) the Acadiana Oil Company Representative again straps their tank in order to obtain a post transfer level. The gross fluid that is recorded is determined by subtracting the initial pump off strap level from the post transfer level. This gross fluid value is corrected for temperature, specific gravity and BS&W content to determine the net oil value that is recorded. This process is repeated for each truck offload.

Summary Tally and Running Totals:

The tables below show an oil tally, a total fluid reconciliation and a flow rate calculation. In total 223.5 bbl of hydrocarbon fluid was transferred from the Chloe Candies into an onshore frac tank. Tank trucks transported 184.1 bbl to the Acadiana Oil Company site which netted out 181.6 bbl of crude oil.

From a total fluids reconciliation standpoint measurements at different site locations were within -2.8%.

The calculated flow rate during the 7.9-day collection cycle offshore was 23.0 bbl/day or 965.6 gallon/day. During the Second collection cycle the curtain installation was being put into place so all of the oil was not being captured.

Oil Tally

					Truck 1				Truck 2				Truck 3				Truck 4				Running	
Oil Tally	Date	Total Fluid Transfer by Cypress (bbl)	Total Fluid Frac Tank Strap by NRC (bbl)	% Diff	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Net Oil (bbl)	Total Net Oil (bbl)
Pump Off #1	4/26/2019	220.0	215.7	-2.0																		
	5/6/2019				113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4
Pump Off #2	5/3/2019	246.3	223.5	-10.2																		
	5/8/2019				101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0

Total Fluid Reconciliation

				Truck 1	Truck 2	Truck 3	Truck 4			
	Date	Total Fluid Frac Tank Strap at Venice by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
Pump Off #1	4/26/2019	215.7	0.0							
	5/6/2019			113.7	97.0	0.0	0.0	5.2	215.9	0.1
Pump Off #2	5/3/2019	223.5	15.6							
	5/8/2019			101.3	82.8	0	0	17.6	217.3	-2.8

Barrels of Oil Collected Daily

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection Rate of Oil (gallon/day)
Collection Duration for 1st Trip	4/12/2019	0:00	4/23/2019	1:05	11.0	187.4	17.0	715.7 gallons/day
Collection Duration for 2nd Trip	4/23/2019	1:05	4/30/2019	21:09	7.9	181.6	23.0	965.6 gallons/day
Collection Duration for 3rd Trip	4/30/2019	21:09	5/12/2019	23:20	12.1	295.7	24.4	1,026.5 gallons/day

Appendix I

MC20 Response Disposal Plan with Completed Documentation

United States Coast Guard
U.S. Department of Homeland Security

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MC-20 Response Disposal Plan

Document #: Couv-O&M-Doc-00004

3/18/19

Revision	Date	By	Check	Approve	Remarks
Rev. 0	3/18/19	[redacted]			Initial Document

United States Coast Guard
U.S. Department of Homeland Security

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MC-20 Response Disposal Plan

USCG Contractor: Couvillion Group
Spilled Material: Crude OIL
Spill Volume (estimate): TBD
Spill Location: MC 20
Date: 01 April 2019

This plan covers the disposal of oily waste debris (including debris, sediment, absorbents, oily water and recovered oil) from the MC-20 site. It addresses the plan for disposal of waste debris after the maintenance vessel has collected and off-loaded these materials into storage tanks or lined storage boxes at the Couvillion Shore Base in Venice, LA. All applicable state, local and federal laws and regulations will be followed when recycling or disposing of the recovered material. Disposed material will be tracked to provide an accurate means of estimating total waste generated from response. All materials will be categorized and itemized for safe and efficient collection, staging, storage and recycling or disposal.

This plan may be amended as necessary to ensure compliance with all applicable laws and regulations, as new materials or waste streams are encountered, or alternative means of disposal are needed. Amendment may occur only upon mutual agreement of the USCG Contractor (Couvillion Group) and the Disposal Contractor (NRC).

Submitted By: [redacted] Date: 03/18/2019
Printed Name: [redacted]

Approved Couvillion Group, LLC: [redacted] Date: 03/18/2019
Printed Name: [redacted]

Approved by USCG [redacted] e: 03/18/2019
Printed Name: [redacted]

SECTION I: WASTE MANAGER AND WASTE HANDLERS

This section lists the contractors assigned and key roles staffed to support disposal.

Name of Company	Disposal Functions	Company Representative (Name, Phone #)
NRC OMI LLC	Waste Broker	[redacted]
OMI LLC	Waste Hauler	
Industrial Response Svcs.	Waste Hauler	
WWD Waste Water Disposal	Water Treatment Facility	
River Birch Subtitle D Landfill	Non-Hazardous Disposal Landfill	

- Note that additional waste haulers may be used due to availability of trucks.
- Additional disposal facilities may be required pending analytical results. List above will be updated once waste classification is made and additional facilities are required.

SECTION II: INTERIM STORAGE, SEGREGATION, PROFILING, AND TRACKING

A. INTERIM STORAGE OF SOLID AND LIQUID MATERIAL

Interim storage will be located at: Couvillion Venice Shore Base;
433 McDermott Rd; Venice, LA 70091; (504) 912-4891 (24 HR)

A special purpose maintenance vessel with the appropriate processing equipment will go to the MC-20 site and take onboard hydrocarbons collected subsea from the Rapid Response System on a frequency to be determined after initial pump drawdowns. This vessel will then return to the Couvillion Shore Base at Venice where the collected hydrocarbons and associated water will be offloaded to 3 – 500 BBL Double Wall Frac Tanks or initially to 3-500 BBL single wall frac tanks with berms if needed until double walled Frac Tanks become available. Further details pertain to offloading and measurement of total liquids can be found in Maintenance Procedure 0004 entitled "Dockside Transfer" and are outside the scope of this document. This document addresses the disposal of oily waste material once the liquids have been offloaded from the vessel into interim storage tanks and any solid waste stored offloaded into interim lined storage baskets at the Venice Shore Base.

The collected hydrocarbons and associated water offloaded to each of the 3-500 BBL storage tanks will be measured using a calibrated turbine meter and recorded in Attachment A. During the initial offloading there will be no residual fluid in the tanks. However, on subsequent offloadings there may be residual fluid in the tanks from prior operations and this value should be recorded in Attachment A before any offloading begins. Once the offloading is complete the tanks will be strapped and comparison done between the meter offloading value and the strapped tank value. If there is a discrepancy of more than 2% then an attempt should be made to explain this discrepancy. After completion of this work the appropriate parties will sign-off on Attachment A.

After a minimum 12 hours from vessel offloading and prior to waste disposal liquid transfer, each storage tank will have it's total volume of liquid measured using a strap tape technique and recorded in Attachment B. The barrels of sediment and water (BS&W) will be measured by strap tape with "Kolor Kut" applied as well as the volume of oil. The appropriate parties will sign-off on Attachment B and the Couvillion representative will give approval to begin pump-off operations.

The oil will be pumped into tank trucks with appropriate metering and recorded in Attachment C with appropriate signatures. The residual oily water will be left in the interim storage tank and then periodically pumped back to the maintenance vessel storage tanks provided by Cypress for further filtration and discharge and recorded in Attachment D as well. The oil transferred to the NRC provided storage trucks will then be sent for recycle. Shipment of collected, segregated and custody transferred metered volumes of oil will be shipped to either Acadiana, PSC, Plains Pipeline or other reputable company.

No truck will leave the yard without written approval from Couvillion Group and without the appropriate paperwork completed and a copy provided to the Couvillion On-Site Representative.

All Trucks on site and utilized during these operations will be secured at the end of each shift by inspecting all valves, brakes, gauges, etc., and bleeding pressure from the system to prevent inadvertent opening of pneumatic valves.

B. SEGREGATION

Lined storage boxes delivered to the site will remain on site as interim solid waste storage pending analytical results, profile approval, and load scheduling. Boxes will be secured at the end of each working day to ensure roll tarps are in place preventing rainwater collection inside of box. NRC will seek written approval from the USCG Contractor Couvillion Group for disposal and will provide the appropriate paperwork include Attachment E.

All petroleum impacted solids (i.e., absorbents, vegetation, soil, debris, etc.) will be comingled into lined storage boxes for disposal at a landfill pending hazardous waste determination and profile approvals acquired by NRC on behalf of USCG Contractor. An up-to-date Waste Management Tracking form (See Attachment E) and the appropriate permits will be maintained by NRC and copies provided to USCG Contractor.

C. PROFILING

Waste profiles will be generated by NRC upon proper hazardous waste determination based on the analytical results. All profiles are to be signed by NRC personnel via signed Broker Authorization Letter. Copies of profiles will be provided with billing tickets. Materials sent for recycle will not require a waste profile. Under no circumstances will NRC, OMI or USCG Contractor be listed as the Generator.

D. TRACKING

All waste will be tracked by NRC / OMI's Disposal Department with copies of documentation provided to the USCG Contractor. Tracking will include management of waste manifests with indication of box numbers or truck numbers, dates of shipment, manifested volumes, and scale tickets. . Waste load outs will be managed by site supervisors overseeing operations.

SECTION III: WASTE DISPOSITION

Liquids: Residual oily water will be left in the Frac tanks and then periodically pumped back to the maintenance vessel storage tanks provided by Cypress for further filtration and discharge. The collected oil will be sent to a recycle facility by NRC.

Solids: The solid waste will be manifested and shipped to River Birch Subtitle D Landfill for Land Disposal. The RP/UC must make the determination based on analysis and generator knowledge that the waste is below all RCRA hazardous waste limits.

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Attachment A: Dockside Transfer – Transfer of Liquid and Crude Oil in Accordance with Maintenance Procedure #0004

Date: 5/3/2019

Time Transfer Ended: _____

	Column A Residual Tank Volume from prior Operation bbls	Column B Tank Volume Measured from Offloading Meter bbls	Column C Tank Strap Volume after Offloading bbls	Column D Volume of Fluid (Column C-A) bbls	% Difference Column (D-B)/D * 100
Tank 1					
Tank 2	-0-	-246.3-	-233.5-	-233.5-	5.48%
Tank 3					
Total					

Note: If the % Difference is greater than 2% please attempt to explain the difference: The Difference is due to the air used to blow the remaining Product out of the line into the Frac Tank.

Sign-off by:

USCG Rep	Signed Nam[redacted]	Printed Nam[redacted]	Date: 5/3/19
Couvillion Rep	Signed Name[redacted]	Printed Name[redacted]	Date: 5/3/19
Cypress Rep	Signed Nam[redacted]	Printed Nam[redacted]	Date: 5/3/19
NRC Rep	Signed Nam[redacted]	Printed Nam[redacted]	Date: 5-3-19

United States Coast Guard
U.S. Department of Homeland Security

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Attachment B: Venice Shore Base On-Site Interim Tank Storage Measurements Before Offloading to Tank Trucks

Date: 5-8-19 **Time:** 0900

Time Measurements begin after Vessel Offloading in hours 117 hrs

Note that there must be a 12 hr minimum settlement time before these strapping measurements are taken

	Column A Tank Strap from Offloading (Use Column C from Attachment A) bbls	Column B Interim Tank Strap Measurement bbls	Column C BS&W Volume using Kolor Kut Strapping bbls	Oil Volume Column (B-C) bbls
Tank 1	823.5	823.5	15.6	807.9
Tank 2				
Tank 3				
Total				

Sign-off by: USCG Rep Signed Name [redacted], Printed Name [redacted] Date:

Couvillion Rep Signed Name: [redacted] Printed Name [redacted] Date: 5-8-19

Cypress Rep Signed Name [redacted], Printed Name [redacted] Date:

NRC Rep Signed Name: [redacted], Printed Name [redacted] Date: 5-8-19

United States Coast Guard
U.S. Department of Homeland Security

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Attachment C: WASTE MANAGEMENT TRACKING FORM

Crude Oil

Start of Shipment Date: 5/8/2019

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Venice Frac Tank in Truck (bbls from Strap)	Volume received by Buyer Measurement (Gross bbls by Strap)	Net Oil bbls (Arcadia Oil Ticket)
3	OFL	22	5/8/19	ACADIANA	101.3	102.02	99.67
3	OFL	222	58/19	ACADIANA	82.8	83.8	81.92
Total Volumes (bbls)					184.1	185.8	181.59

End of Shipment Date: 5-8-19

2ND OFFLOAD TRIP

ACADIANA OIL & ENVIRONMENTAL CORPORATION
P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
14096

(Load-1)

Date 5-8-2019

Operator Couvillion Lease No C G

Lease Name Group

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES	BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP
1st	17	06 0/8			
2nd	17	09 1/2			

TANK NO.	SIZE
62006	12,500

EST GROSS GALLONS @ °F

SERIAL NUMBERS

OIL

NEW OIL

OBSERVED GRAVITY 26 @ 70 °F

PERCENT BS & W 1.9 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

OFFICE USE ONLY

GRAVITY CORR TO 60 °F

1st

2nd

GROSS BARRELS 102.02

X FACTOR .9959

NET BBLS PER RUN TIC 101.60

DELIVERY STATION Berwick La.

TEMP FACTOR x BS & W FACTOR = X FACTOR .9959

GROSS

TARE

NET

OPEN

CLOSE

[redacted]

OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267 X/F	.42
			BS	1.93
			Net	99.67

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

ACADIANA OIL & ENVIRONMENTAL CORPORATION
P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
14098

(Load-2)

Date 5-8-2019

Operator Couvillion Lease No C G

Lease Name Group

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES	BS&W LEVEL FT	BS&W LEVEL INCHES	TANK TEMP
1st	17	09 1/2			
2nd	18	00 3/8			

TANK NO.	SIZE
62006	12,500

EST GROSS GALLONS @ °F

SERIAL NUMBERS

OIL

NEW OIL

OBSERVED GRAVITY 26 @ 71 °F

PERCENT BS & W 1.8 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

OFFICE USE ONLY

GRAVITY CORR TO 60 °F

1st

2nd

GROSS BARRELS 83.8

X FACTOR .9955

NET BBLS PER RUN TIC 83.42

DELIVERY STATION Berwick La.

TEMP FACTOR x BS & W FACTOR = X FACTOR .9955

GROSS

TARE

NET

OPEN

CLOSE

[redacted]

OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267 X/F	.38
			BS	1.50
			Net	81.92

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

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Attachment C: WASTE MANAGEMENT TRACKING FORM (Continued)

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank (Strap in inches/bbls)
Tank 1	17.6
Tank 2	
Tank 3	

Sign-off by: USCG Rep Signed Name [redacted], Printed Nam[redacted] Date:_____

Couvillion Rep Signed Name: [redacted], Printed Name [redacted] Date: 5-8-19

Cypress Rep Signed Name [redacted], Printed Nam[redacted] Date:_____

NRC Rep Signed Name [redacted], Printed Nam[redacted] Date 5/8/19

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U.S. Department of Homeland Security

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Attachment C: WASTE MANAGEMENT TRACKING FORM (Continued)

Petroleum Contaminated Solids

Manifest Number	Transporter	Shipment Date	Receiving Facility	Manifested Volume (Yards)	Scaled Weight (Lbs)	Comments (Box Numbers, etc.)

* No Solids

Sign-off by: USCG Rep Signed Name [redacted], Printed Name [redacted] Date:_____

Couvillion Rep Signed Name: [redacted] Printed Name [redacted] Date: 5-3-19

Cypress Rep Signed Name [redacted], Printed Name [redacted] Date:_____

NRC Rep Signed Name [redacted], Printed Name [redacted] Date 5/3/19

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Attachment D: Recycle of Oily Water from Frac Tanks to Maintenance Vessel

Date: 5-13-19

	Total Tank Strap Measurement bbls	BS&W Volume using Kolor Kut Strapping bbls	Volume of oily water transferred to Maintenance Vessel using Strap Measurement bbls
Tank 1	17.6	—	17.6
Tank 2			
Tank 3			

Residual Volume left in Tanks

	Strap Measurement bbls
Tank 1	
Tank 2	
Tank 3	

Sign-off by: USCG Rep Signed Nam[redacted], Printed Name[redacted] Date:_____

Couvillion Rep Signed Name: [redacted] Printed Name [redacted] Date: 5-13-19

Cypress Rep Signed Nam[redacted], Printed Name[redacted] Date:_____

NRC Rep Signed Name[redacted], Printed Name[redacted] Date 5-13-19

Trip 2

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY IT'S THE WAY TO GO!
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS	
Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 05/03/2019	**Start Time:** 0900	**Job Number: 19-0192**

☐ **Land Emergency Response** ☐ **Marine Emergency Response** ☐ **Land Service** ☒ **Marine Service**

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Candies has been collecting crude oil from the location and storing it on frac tanks located on her deck. The M/V Chloe Candies will be moored to the dock at the above location, and transfer the recovered crude from the frac tanks on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V Chloe Candies will send a 100' section of 2-inch petroleum duty hose to the dock where it will be connected to the hoses leading to the double walled frac tanks on the dock. Once the connections are secured and the declaration of inspection (DOI) is complete, the M/V Chloe Candies will transfer the crude oil in her tanks using a 3-inch pneumatic diaphragm pump. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.

Appendix II

NRC Waste Handling Documentation

Form 8.1.7	SAFETY MANAGEMENT SYSTEM Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	SAFETY IT'S THE WAY TO GO! Revision: 04/2019

SAFETY PLAN APPROVAL

Site Safety Officer [redacted] **Date** 5-3-19

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules.
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form.
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor.
After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at_____

Date	Print Name	Signature
5-3-19	[redacted]	
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5/3/19		
5/3/19		
5/3/19		
5/3/19		
5/3/19		
5/3/19		

DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY: Venice, La. Cowillion Dock

NAME OF VESSEL: Chloe Candies

DATE TRANSFER OPERATIONS STARTS: 5-3-2019

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.
Persons in charge indicate by a check (✓), in the appropriate spaces, that the specific requirement has been met.

VESSEL		FACILITY
TS WS	A. The mooring lings are adequate for all anticipated conditions	JS
TS WS	B. Cargo hoses and or loading arms are long enough for intended use	JS
TS WS	C. Cargo hoses are adequately supported to prevent undue strain on the couplings	JS
TS WS	D. The transfer system is properly lined up for discharging or receiving oil. (Additional checks shall be performed each time a valve is repositioned.)	JS
TS WS	E. Each flange connection on the cargo system not being used during the transfer operation is blanked or shut off	JS
TS WS	F. The cargo hoses and or loading arms are connected to the manifolds using gaskets and a bolt in every other hole. (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver from the Captain of the Port	JS
TS WS	G. The overboard or sea suction valves are sealed or lashed in the closed position	JS
TS WS	H. Adequate spill containments have been provided for couplings	JS
TS WS	I. All scuppers or other overboard drains are closed or plugged	JS
TS WS	J. A communications system is provided between the facility and the vessel	JS
TS WS	K. Emergency shutdown system is available and operable	JS
TS WS	L. Communication procedures are established and understood between persons in charge	JS
TS WS	M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control stations	JS
TS WS	N. One person at the vessel control station is present who fluently speaks the language of the terminal control station	JS
TS WS	O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loose covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and that hoses are marked for identification and test data is maintained in a test log	JS
TS WS	P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided	JS
	Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer operations:	
TS WS	1. Product identity to be transferred	JS
TS WS	2. Sequence of transfer operation	JS
TS WS	3. Transfer rate of flow	JS
TS WS	4. Name or title and location of each person participating in the transfer operation	JS
TS WS	5. Particulars of the transferring and receiving systems	JS
TS WS	6. Starting, stripping, topping and shutdown have been discussed and understood	JS
TS WS	7. Emergency procedures including notification, containment and cleanup of spills	JS
TS WS	8. Watch and shift arrangements	JS
TS WS	9. Notification before leaving stations	JS

The following items are to be filled out by Vessel personnel only.

TS WS	1. Warning signs and read warning signals (35.35-30).
TS WS	2. Repair work authorization (35.35-30).
TS WS	3. Boiler and galley fires safety (35.35-30).
TS WS	4. Fires or open flames (35.35-30).
TS WS	5. Safe smoking space (35.35-30).

I certify that I have read, understand and agree with the foregoing as marked and agree to begin continue the transfer operation.

PERSON IN CHARGE OF VESSEL	Signature [redacted]	PERSON IN CHARGE OF FACILITY	Sig [redacted]
	Title		Tit
	Time		Tim

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date: 5-3-19	**Location:** Couvillion, Venice La		
Facility/Vehicle Number:		**Start Time**	**End Time**
Vessel Name: Chloe Candis		0830	1133
Vessel Official Number:	**Vessel Capacity** (Total) (bbls):		
Product Transferred: Crude oil	***Est.* Transfer Volume** (bbls):		

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:

Maximum most probable:

Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

☑	***TOPIC***	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)	TS	JS
	Person In Charge (PIC): In Immediate Vicinity and Available	TS	JS
	Personnel: Capable/Unimpaired	TS	JPS
	Name, title and location of each person participating in the transfer operation	TS	JS
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations	TS	JS
	Watch and shift arrangements discussed	TS	JS
	Cargo is Authorized for transfer ***to* or *from*** tanks	TS	JS
	Discuss if transfer will need to stopped to change tanks – *supply or receiving facility*	TS	JS
	Discuss transfer rates and max allowable to receiving facility	TS	JS
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	TS	JS
	Communications & No Language Barrier	TS	JS
§ Hoses and Connection - 33CFR 154.500			
	Nonmetallic hoses usable for oil or hazardous material service	TS	JS
	Proper connections (must be one of the following):	TS	JS
	Fusion 100 hammer union connections	TS	JS
	Quick-disconnect coupling present on suction side of pump	TS	JS
	Examine transfer hose markings or records.	TS	JS
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"	TS	JS
§ Examine Transfer Hose condition - 33CFR 156.170			
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	TS	JS
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	TS	JS
	No external/internal deterioration	TS	JS
§ Emergency shutdown - 33CFR 156.170			
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	TS	JS
	Communication system continuously operated.	TS	JS
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic voice)	TS	JS
	Record test info in physical information.	TS	JS
§ Examine closure device - 33CFR 154.520			
	Verify enough to blank off ends of each hose /loading arm not connected for transfer	TS	JS
§ Inspect Small Discharge Containment - 33CFR 154.530			
	Inspect handling area and verify capacity (not less than 5 gallons)	TS	JS

Pre-Transfer Conference and Agreement (Continued)

☑	TOPIC	PIC Delivering	PIC Receiving
§	**Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545**		
	Verify booming for oil or hazmat transfer (if required by COTP).	TJ	JS
	Verify adequate amount of equipment and/or absorbent material for initial response	TJ	JS
	Inspect condition of response equipment stored on facility (if applicable).	TJ	JS
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	TJ	JS
	Verify means of deployment.	TJ	JS
§	**Means of Communication - 33 CFR 154.560**		
	Verify continuous two-way voice communication between vessel and facility PICs.	TJ	JS
	Communications must meet the following requirements...		
	Portable Radio:		
	IF Flammable or Combustible Liquids	TJ	JS
	1. Marked or documented as intrinsically safe.	TJ	JS
	2. Certified as intrinsically safe by national testing labor certification organization.	TJ	JS
	Voice		
	1. Be audible.	TJ	JS
	Test communications. SAT ☐ UNSAT ☐	TJ	JS
§	**Inspect lighting systems - 33 CFR 154.570**		
	Verify portable lighting for operations between sunrise and sunset *(if applicable).*	TJ	JS
	At transfer operations work areas for facility and vessel	TJ	JS
	At transfer connection points for facility and vessel	TJ	JS
	Verify sufficient number or fire extinguishers.	TJ	JS
	Verify protective equipment is ready to operate.	TJ	JS
	Verify warning signs are adequate.	TJ	JS

§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §

	PIC for vessel/operator is required by §155.720 to have current transfer procedures
	Require vessel personnel to use the transfer procedures for each transfer operation
	Available for inspection by the COTP or OCMI whenever the vessel is in operation
	Legibly printed language(s) understood by personnel engaged in transfer operation
	Permanently posted or available and used by members of crew engaged in transfer operation
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)
	Arrangements to monitor draft marks during transfer
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system
	Adequate containment on the vessel at loading or discharge connection
	Drains, Scuppers and overboard discharges closed
	The number of persons required to be on duty during transfer operations:
	Procedures for emptying discharge containment system required by §§155.310 and 155.320
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785
	Procedures for topping off tanks
	Procedures ensuring all valves used during transfer are closed upon completion of transfer

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.

[redacted] 5-3-19 DATE TIME

5/3/19 DATE TIME

TRANSFER COMPLETED: 2835 AMOUNT (GALLONS) 5-3-19 DATE 1133 TIME

	SAFETY MANAGEMENT SYSTEM	SAFETY IT'S THE WAY TO GO!
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS	
Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 5/8/2019	**Start Time:** 0900	**Job Number:** 19-0192

☐ Land Emergency Response ☐ Marine Emergency Response ☐ Land Service ☒ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Candies has been collecting crude oil from the location and storing it on frac tanks located on her deck. The M/V Chloe Candies will be moored to the dock at the above location and transfer the recovered crude from the frac tanks on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V Chloe Candies will send a 100' section of 2 inch petroleum duty hose to the dock where it will be connected to the hoses leading to the double walled frac tanks on the dock. Once the connections are secured and the declaration of inspection (DOI) is complete, the M/V Chloe Candies will transfer the crude oil in her tanks using a 3-inch pneumatic diaphragm pump. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.

	SAFETY MANAGEMENT SYSTEM	SAFETY IT'S THE WAY TO GO!
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

[redacted]FETY PLAN APPROVAL

Site Safety Officer [redacted] Date 5 [illegible] 2019

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules.
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form.
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor.
After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at _____

Date	Print Name	Signature
5-9-2019	[redacted]	
5-8-2019		
5-8-19		
5 8 19		
5-8-19		
5-8-19		

COUVILLION DECLARATION OF INSPECTION - DOI 2019

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date: 4/29/19	**Location:** MC-20		
Facility/Vehicle Number:		**Start Time**	**End Time**
Vessel Name: Chole Candies		2100	2340
Vessel Official Number:	**Vessel Capacity (Total) (bbls):**		
Product Transferred: Crude Oil	***Est.* Transfer Volume (bbls):**		

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:

Maximum most probable:

Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

☑	***TOPIC***	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)	SAS	TJ
	Person In Charge (PIC): In Immediate Vicinity and Available	SAS	TJ
	Personnel: Capable/Unimpaired	SAS	TJ
	Name, title and location of each person participating in the transfer operation	SAS	TJ
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations	SAS	TJ
	Watch and shift arrangements discussed	SAS	TJ
	Cargo is Authorized for transfer ***to*** **or** ***from*** tanks	SAS	TJ
	Discuss if transfer will need to stopped to change tanks – *supply or receiving facility*	SAS	TJ
	Discuss transfer rates and max allowable to receiving facility	SAS	TJ
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	SAS	TJ
	Communications & No Language Barrier	SAS	TJ
§ Hoses and Connection - 33CFR 154.500			
	Nonmetallic hoses usable for oil or hazardous material service	SAS	TJ
	Proper connections (must be one of the following):	SAS	TJ
	Fusion 100 hammer union connections	SAS	TJ
	Quick-disconnect coupling present on suction side of pump	SAS	TJ
	Examine transfer hose markings or records.	SAS	TJ
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"	SAS	TJ
§ Examine Transfer Hose condition - 33CFR 156.170			
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	SAS	TJ
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	SAS	TJ
	No external/internal deterioration	SAS	TJ
§ Emergency shutdown - 33CFR 156.170			
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	SAS	TJ
	Communication system continuously operated.	SAS	TJ
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic voice)	SAS	TJ
	Record test info in physical information.	SAS	TJ
§ Examine closure device - 33CFR 154.520			
	Verify enough to blank off ends of each hose /loading arm not connected for transfer	SAS	TJ
§ Inspect Small Discharge Containment - 33CFR 154.530			
	Inspect handling area and verify capacity (not less than 5 gallons).	SAS	J

☑	*Pre-Transfer Conference and Agreement (Continued)* TOPIC	PIC Delivering	PIC Receiving
§	**Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545**		
	Verify booming for oil or hazmat transfer (if required by COTP).	SAS	TJ
	Verify adequate amount of equipment and/or absorbent material for initial response	SAS	TJ
	Inspect condition of response equipment stored on facility (if applicable).	SAS	TJ
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	SAS	TJ
	Verify means of deployment.	SAS	TJ
§	**Means of Communication - 33 CFR 154.560**		
	Verify continuous two-way voice communication between vessel and facility PICs.	SAS	TJ
	Communications must meet the following requirements…		
	Portable Radio:		
	IF Flammable or Combustible Liquids	SAS	TJ
	1. Marked or documented as intrinsically safe.	SAS	TJ
	2. Certified as intrinsically safe by national testing labor certification organization.	SAS	TJ
	Voice		
	1. Be audible.	SAS	TJ
	Test communications. SAT ☐ UNSAT ☐		
§	**Inspect lighting systems - 33 CFR 154.570**		
	Verify portable lighting for operations between sunrise and sunset *(if applicable).*	SAS	TJ
	At transfer operations work areas for facility and vessel	SAS	TJ
	At transfer connection points for facility and vessel	SAS	TJ
	Verify sufficient number or fire extinguishers.	SAS	TJ
	Verify protective equipment is ready to operate.	SAS	TJ
	Verify warning signs are adequate.	SAS	TJ
	§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §		
	PIC for vessel/operator is required by §155.720 to have current transfer procedures		
	Require vessel personnel to use the transfer procedures for each transfer operation		
	Available for inspection by the COTP or OCMI whenever the vessel is in operation		
	Legibly printed language(s) understood by personnel engaged in transfer operation		
	Permanently posted or available and used by members of crew engaged in transfer operation		
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		
	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		
	Adequate containment on the vessel at loading or discharge connection		
	Drains, Scuppers and overboard discharges closed		
	The number of persons required to be on duty during transfer operations;		
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		
	Procedures for topping off tanks		
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.

[redacted]		4/29/19	
PIC DELIVERING – NAME	TITLE	DATE	TIME
[redacted]		4-29-19	
PIC RECEIVING – NAME	TITLE	DATE	TIME

TRANSFER COMPLETED: AMOUNT (GALLONS) | DATE: 4-29-19 | TIME: 2355

DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY: Venice, La. Convillion Dock

NAME OF VESSEL: Chloe Candies

DATE TRANSFER OPERATIONS STARTS: 5-3-2019

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.
Persons in charge indicate by a check (√), in the appropriate spaces, that the specific requirement has been met.

VESSEL		FACILITY
TS WS	A. The mooring lings are adequate for all anticipated conditions	JS
TS WS	B. Cargo hoses and or loading arms are long enough for intended use	JS
TS WS	C. Cargo hoses are adequately supported to prevent undue strain on the couplings	JS
TS WS	D. The transfer system is properly lined up for discharging or receiving oil. (Additional checks shall be performed each time a valve is repositioned.)	JS
TS WS	E. Each flange connection on the cargo system not being used during the transfer operation is blanked or shut off	JS
TS WS	F. The cargo hoses and/or loading arms are connected to the manifolds using gaskets and a bolt in every other hole. (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver from the Captain of the Port	JS
TS WS	G. The overboard or sea suction valves are sealed or lashed in the closed position	JS
TS WS	H. Adequate spill containments have been provided for couplings	JS
TS WS	I. All scuppers or other overboard drains are closed or plugged	JS
TS WS	J. A communications system is provided between the facility and the vessel	JS
TS WS	K. Emergency shutdown system is available and operable	JS
TS WS	L. Communication procedures are established and understood between persons in charge	JS
TS WS	M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control stations	JS
TS WS	N. One person at the vessel control station is present who fluently speaks the language of the terminal control station	JS
TS WS	O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loose covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and that hoses are marked for identification and test data is maintained in a test log	JS
TS WS	P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided	JS
	Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer operations:	
TS WS	.1. Product identity to be transferred	JS
TS WS	.2. Sequence of transfer operation	JS
TS WS	.3. Transfer rate of flow	JS
TS WS	.4. Name or title and location of each person participating in the transfer operation	JS
TS WS	.5. Particulars of the transferring and receiving systems	JS
TS WS	.6. Starting, stripping, topping and shutdown have been discussed and understood	JS
TS WS	.7. Emergency procedures including notification, containment and cleanup of spills	JS
TS WS	.8. Watch and shift arrangements	JS
TS WS	.9. Notification before leaving stations	JS

The following items are to be filled out by Vessel personnel only.

TS WS	.1. Warning signs and read warning signals (35.35-30).
TS WS	.2. Repair work authorization (35.35-30).
TS WS	.3. Boiler and galley fires safety (35.35-30).
TS WS	.4. Fires or open flames (35.35-30).
TS WS	.5. Safe smoking space (35.35-30).

I certify that I have read, understand and agree with the foregoing as marked and agree to begin/continue the transfer operation.

PERSON IN CHARGE OF VESSEL	Signature [redacted]	PERSON IN CHARGE OF FACILITY	Signature [redacted]
	Title [redacted]		Title [redacted]
	Time 0910 Date 5-3-19		Time 0910 Date 5/3/19

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month.

NRC	SAFETY MANAGEMENT SYSTEM	TEAM SAFETY IT'S THE WAY TO GO!
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

SAFETY PLAN APPROVAL

Site Safety Officer _____ **Date** _____

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules.
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form.
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor.
After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at_____

Date	Print Name	Signature
5-3-19	[redacted]	
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
5-3-19		
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5/3/19		
5/3/19		
5/3/19		

COUVILLION DECLARATION OF INSPECTION - DOI 2019

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date: 5-3-19	**Location:** Couvillion, Venice, La		
Facility/Vehicle Number:		**Start Time**	**End Time**
Vessel Name: Chloe Candice		0830	1133
Vessel Official Number:	**Vessel Capacity** (Total) (bbls):		
Product Transferred: Crude oil	***Est.* Transfer Volume** (bbls):		

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:

Maximum most probable:

Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

☑	***TOPIC***	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)	TJ	JS
	Person In Charge (PIC): In Immediate Vicinity and Available	TJ	JS
	Personnel: Capable/Unimpaired	TJ	JS
	Name, title and location of each person participating in the transfer operation	TJ	JS
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations	TJ	JS
	Watch and shift arrangements discussed	TJ	JS
	Cargo is Authorized for transfer ***to*** **or** ***from*** tanks	TJ	JS
	Discuss if transfer will need to stopped to change tanks – *supply or receiving facility*	TJ	JS
	Discuss transfer rates and max allowable to receiving facility	TJ	JS
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	TJ	JS
	Communications & No Language Barrier	TJ	JS
§ Hoses and Connection - 33CFR 154.500			
	Nonmetallic hoses usable for oil or hazardous material service	TJ	JS
	Proper connections (must be one of the following):	TJ	JS
	Fusion 100 hammer union connections	TJ	JS
	Quick-disconnect coupling present on suction side of pump	TJ	JS
	Examine transfer hose markings or records.	TJ	JS
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"	TJ	JS
§ Examine Transfer Hose condition - 33CFR 156.170			
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	TJ	JS
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	TJ	JS
	No external/internal deterioration	TJ	JS
§ Emergency shutdown - 33CFR 156.170			
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	TJ	JS
	Communication system continuously operated.	TJ	JS
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic voice)	TJ	JS
	Record test info in physical information.	TJ	JS
§ Examine closure device - 33CFR 154.520			
	Verify enough to blank off ends of each hose /loading arm not connected for transfer	TJ	JS
§ Inspect Small Discharge Containment - 33CFR 154.530			
	Inspect handling area and verify capacity (not less than 5 gallons).	TJ	JS

COUVILLION *DECLARATION OF INSPECTION - DOI* 2019

Pre-Transfer Conference and Agreement (Continued)			
☑	***TOPIC***	**PIC Delivering**	**PIC Receiving**
§ Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545			
	Verify booming for oil or hazmat transfer (if required by COTP).	TJ	JS
	Verify adequate amount of equipment and/or absorbent material for initial response	TJ	JS
	Inspect condition of response equipment stored on facility (if applicable).	TJ	JS
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	TJ	JS
	Verify means of deployment.	TJ	JS
§ Means of Communication - 33 CFR 154.560			
	Verify continuous two-way voice communication between vessel and facility PICs.	TJ	JS
	Communications must meet the following requirements…		
	Portable Radio:		
	IF Flammable or Combustible Liquids	TJ	JS
	1. Marked or documented as intrinsically safe.	TJ	JS
	2. Certified as intrinsically safe by national testing labor certification organization.	TJ	JS
	Voice		
	1. Be audible.	TJ	JS
	Test communications. SAT ☐ UNSAT ☐	TJ	JS
§ Inspect lighting systems - 33 CFR 154.570			
	Verify portable lighting for operations between sunrise and sunset *(if applicable).*	TJ	JS
	At transfer operations work areas for facility and vessel	TJ	JS
	At transfer connection points for facility and vessel	TJ	JS
	Verify sufficient number or fire extinguishers.	TJ	JS
	Verify protective equipment is ready to operate.	TJ	JS
	Verify warning signs are adequate.	TJ	JS
§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §			
	PIC for vessel/operator is required by §155.720 to have current transfer procedures		
	Require vessel personnel to use the transfer procedures for each transfer operation		
	Available for inspection by the COTP or OCMI whenever the vessel is in operation		
	Legibly printed language(s) understood by personnel engaged in transfer operation		
	Permanently posted or available and used by members of crew engaged in transfer operation		
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		
	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		
	Adequate containment on the vessel at loading or discharge connection		
	Drains, Scuppers and overboard discharges closed		
	The number of persons required to be on duty during transfer operations;		
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		
	Procedures for topping off tanks		
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.

[redacted]		5-3-19 DATE	TIME
PIC RECEIVING – NAME	TITLE	5/3/19 DATE	✓ TIME

TRANSFER COMPLETED: 2825 AMOUNT (GALLONS) | 5-3-19 DATE | 1133 TIME

(FORM UPDATED April 15 2019)

FLUID TRACKING SHEET

Customer: Couvillion
Location: MC-20

Date: 4/30/2019 - 5/2/2019
Job #: 018-3022072

CYPRESS
Fluid Technologies

Time	Fluids Received (Bbls)	Approximate Flow Rate	Shake Out Oil/Water	Total Oil Collected (Bbls)	Discharged	Fluid Processed Flow Rate	Effluent I.R. Results	Waste (Bbls)
RRS Oil Storage Tank "A" (4/30/2019)								
1810	11	0.9	99% / 1%	TBD at Dock	0	N/A	N/A	0
1830	29	1.2	99% / 1%	TBD at Dock	0	N/A	N/A	0
1835	35	1.8	3% / 97%	TBD at Dock	0	N/A	N/A	0
RRS Oil Storage Tank "B" (4/30/2019)								
1850	55	1.0	100% Oil	TBD at Dock	0	N/A	N/A	0
1910	75	1.0	100% Oil	TBD at Dock	0	N/A	N/A	0
1930	96	1.0	100% Oil	TBD at Dock	0	N/A	N/A	0
1950	115	1.9	3% / 97%	TBD at Dock	0	N/A	N/A	0
RRS Oil Storage Tank "C" (4/30/2019)								
2010	144	1.0	100% Oil	TBD at Dock	0	N/A	N/A	0
2030	163	1.0	100% Oil	TBD at Dock	0	N/A	N/A	0
2050	179	1.0	100% Oil	TBD at Dock	0	N/A	N/A	0
2109	193	1.6	2% / 98%	TBD at Dock	0	N/A	N/A	0
Fluids Processed After Decanting MPT Tank (5/1/2019)								
1445	N/A	N/A	N/A	N/A	0	0.0	1.2	0
1500	N/A	N/A	N/A	N/A	8.4	0.7	N/A	0
1530	N/A	N/A	N/A	N/A	29.5	0.7	N/A	0
1545	N/A	N/A	N/A	N/A	40.2	0.7	0.87	0
Fluids Processed After Decanting MPT Tank (5/2/2019)								
1710	N/A	N/A	N/A	N/A	40.2	0.0	0.9	0
1730	N/A	N/A	N/A	N/A	56.2	0.8	N/A	0
1755	N/A	N/A	N/A	N/A	80.6	1.0	N/A	0
Total Barrels of Oil Received During Pumping Operations 223.5 (5/3/2019)								

Fluids Received=	The approximate total fluids entering the system including all water, oil, sludge, and etc.
Discharged =	This is the total fluids discharged overboard.
Waste=	This is the total fluids or solids that are put in a container to be send in for disposal.