LOOP (LA0049492, AI No. 4634)

NPDES Permit Chronology

July 22, 1977 – effective date of the **Initial NPDES permit** signed on June 22, 1977 by the R6 RA, (John C. White).

Receiving Waters: The Gulf of Mexico, Bayou Lafourche, Breton Canal, the Mississippi River and Outer Continental Shelf Lease Block 52, Grand Isle Area.

No LAT/LONG in permit.

Outfall 001: Monitor Flow (GPD) and O&G limits of 30/52 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the oil separator downstream of the sump at the pumping platform located 18 miles offshore in Grand Isle Block 52.

Outfall 002: Flow limits 1000/1200 gpd, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the pumping platform.

Outfall 003: When crude oil storage begins these conditions are void and limits for Outfall 004 apply. Flow limits 12.6/16.8 MGD (daily avg/daily max), Monitor TDS (total dissolved filterable residue), pH limits 6.0- 9.0 s.u.. Sample location: at a sampling station on the brine discharge pipeline prior to discharge.

Outfall 004: Flow limits 0.12*(??)*/25.2 MGD, O&G limits of 10/15 mg/L (daily avg/daily max); Monitor TDS (total dissolved filterable residue), pH limits 6.0- 9.0 s.u.. Sample location: at a sampling station on the brine discharge pipeline prior to discharge.

Outfall 005: Monitor Flow (GPD) and O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the oil removal treatment system for hose testing at the Small Boat Harbor.

Outfall 006: Flow limits 250 gpd (daily max), BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the Small Boat Harbor.

Outfall 007: Flow limits 750/1000 gpd, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the Operations Center located near Raceland, Louisiana.

Outfall 008: Flow limits 200/400 gpd, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the storage terminal.

Outfalls 009, 010, 011 (hydrostatic test water): Monitor Flow (GPD), Corrosion inhibitor limit 100 mg/L (daily max), Oxygen scavenger 90 mg/L, pH limits 6.0- 9.0 s.u.. Sample location 009: at a sampling station on the brine discharge pipeline prior to discharge. Sample location 010: at the offshore pumping platform (18 miles offshore). Sample location 011: at the outfall before it reaches the Mississippi River.

Outfall 012: Monitor Flow (GPD) and O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the Clovelly tank dike (area runoff).

(excerpts) Part III – Other Requirements: The Department of Transportation license requires studies prior to construction of Outfall 003 to aid in making a final decision on location and potential adverse effects. EPA should receive the results of these studies as identified in Annex A, part (2) at least 90 days prior to any construction related to the brine outfall system.

Monitoring shall be conducted in accordance with the requirements of the U.S. Department of Transportation license (Annex A part 8) and the Louisiana Offshore Terminal Authority. EPA shall be kept informed on monitoring plan development and results of such monitoring. If the monitoring plan proposed is judged by EPA to be inadequate to provide the needed information to evaluate environmental effects this permit may be modified to require additional monitoring.

Unacceptable adverse impacts due to LOOP operations as revealed by the environmental monitoring required above may require that this permit be modified to alleviate such impacts.

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May 1, 1979 –effective date of the NPDES **permit reissuance with changes** signed on February 6, 1979 by Jim Collins (attorney) "for" the Enforcement Division Director, Howard G. Bergman. On March 30, 1979, Diana Dutton, the Enforcement Division Director, signed the NPDES Determination.

Receiving Waters: The Gulf of Mexico, Bayou Lafourche, Bayou Moreau, Breton Canal, the Mississippi River and Outer Continental Shelf Lease Block 59, Grand Isle Area.

No LAT/LONG in permit.

Outfall 001 (Pumping Platform Oily water Discharge): Monitor Flow (GPD) and O&G limits of 30/52 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the oily waste treatment plant at the pumping platform located approximately 18 miles offshore in Grand Isle Block 59.

Outfall 002 (Control Platform Sanitary Discharge): Flow limits 3900/7800 gpd, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the control platform, prior to commingling with any other stream.

Outfalls 004 (Brine Disposal – Leaching & Operations): Flow limits 25.2/25.2 MGD, O&G limits of 10/15 mg/L (daily avg/daily max), Monitor TDS (total dissolved filterable residue), Corrosion inhibitor and Oxygen scavenger "see Part III," pH limits 6.0- 9.0 s.u.. Sample location: at a sampling station on the brine discharge pipeline prior to discharge.

Outfall 005 (Small Boat Harbor-Hose Testing): Monitor Flow (GPD) , O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the oil removal treatment system for hose testing at the Small Boat Harbor.

Outfall 006 (Small Boat Harbor Domestic Waste): Flow limits 2120/2500 gpd, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the Small Boat Harbor.

Outfall 007 (Operations Center Sanitary Waste): Flow limits 2300/2500 gpd, BOD limits 30/45 mg/L, TSS

limits 30/45 mg/L, FC 200/400 per 100 ml (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the Operations Center located near Gilliano, Louisiana.

Outfall 008 (Storage Terminal Sanitary Waste): Flow limits 200/500 gpd, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the storage terminal.

Outfall 009 (Brine Disposal Pipeline-Hydrostatic Test): Monitor Flow (GPD), Corrosion inhibitor limit 100 mg/L, Oxygen scavenger 90 mg/L (daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall before it reaches the Gulf of Mexico.

Outfall 010 (Hydrostatic Test Water – Crude Oil Pipeline, Offshore Section, SPM Pipelines, Fuel Pipeline): Monitor Flow (GPD), Corrosion inhibitor limit 100 mg/L, Oxygen scavenger 90 mg/L (daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the offshore pumping platform (18 miles offshore).

Outfall 011 (Locap Crude Oil Pipeline- Hydrostatic Test): Monitor Flow (GPD), Corrosion inhibitor limit 100 mg/L, Oxygen scavenger 90 mg/L (daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall before it reaches the Mississippi River.

Outfall 012 (Clovelly Storage Terminal -Tank Dike Runoff): Monitor Flow (GPD) and O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the Clovelly tank dike (area runoff).

Outfall 014 (Control Platform Vapor Compression Blowdown): Flow limits 6000/12,000 gpd (daily avg/daily max), Copper limit of 1.0 mg/L, Chlorine limit of 1.0 mg/L, (both daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the brine water blowdown outfall from the vapor compression distillation unit at the control platform located approximately 18 miles offshore in Grand Isle Block 59.

Outfall 015 (Pumping Platform Non-Contact Cooling Water): Flow limits 2,160,000/2,700,000 gpd (daily avg/daily max), Chlorine limits of 0.5/1.0 mg/L, (daily avg/daily max), Monitor Temperature (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the non-contact cooling water outfall at the pumping platform located 18 miles offshore in Grand Isle Block 59.

Outfall 016 (Crude Oil Pipeline-Onshore Segment-Gulf of Mexico-Hydrostatic Test): Monitor Flow (GPD) (daily avg/daily max), Corrosion inhibitor limit 100 mg/L, Oxygen scavenger 90 mg/L, (both daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall before it reaches the Gulf of Mexico.

Outfall 017 (Crude Oil Pipeline-Onshore Segment-Clovelly-Hydrostatic Test): Monitor Flow (GPD) (daily avg/daily max), Corrosion inhibitor limit 100 mg/L, Oxygen scavenger 90 mg/L, (both daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall before it reaches Breton Canal.

Outfall 018 (Fourchon Booster Station Dike Runoff): Monitor Flow (GPD) (daily avg/daily max), and O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the Fourchon Booster Station dike area (storm runoff).

(excerpts) Part III – Other Requirements: The Department of Transportation license requires studies prior to construction of Outfall 004 to aid in making a final decision on location and potential adverse effects. EPA should receive the results of these studies as identified in Annex A, part (2) at least 90 days

prior to any construction related to the brine outfall system.

Monitoring shall be conducted in accordance with the requirements of the U.S. Department of Transportation license (Annex A part 8) and the Louisiana Offshore Terminal Authority. EPA shall be kept informed on monitoring plan development and results of such monitoring. [Reports of monitoring ...shall be provided to EPA quarterly]. If the monitoring plan proposed is judged by EPA to be inadequate to provide the needed information to evaluate environmental effects this permit may be modified to require additional monitoring.

Unacceptable adverse impacts due to LOOP operations as revealed by the environmental monitoring required above may require that this permit be modified to alleviate such impacts....

Re: Outfall 004

A. The permittee shall design, construct, and operate a diffusion system for brine disposal (004) to achieve a maximum rate of diffusion while minimizing the area which may be adversely affected.

B. If the permittee determines, through the corrosion monitoring program, the need for addition of oxygen scavenger [Corexit R 7790] to the brine disposal pipeline, a report shall be provided summarizing the monitoring results and justifying such chemical addition. This report shall be submitted to this Agency 30 days prior to anticipated date of addition. The EPA will make a determination on whether or not to allow the use of the oxygen scavenger and respond within this time. If allowed, the permitted discharge concentration will depend upon the dissolved oxygen concentration present in the brine. Oxygen scavenger concentration will be no greater than 15 times the dissolved oxygen concentration and shall in no case exceed 90 mg/L.

C. After leaching operations are completed and during prolonged periods of static operations (i.e., no discharge) a corrosion inhibitor [Corexit R 7733] may be used to protect the brine line from corrosion. Permittee shall notify this Agency prior to addition of inhibitor, and also prior to discharge of pipeline volume upon termination of static operations. Discharge concentration shall in no case exceed 100 mg/L.

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May 2, 1985 – effective date of the NPDES permit signed on March 29, 1985 by the Water Management Division, Director (Myron O. Knudson, P.E.).

Receiving Waters: The Gulf of Mexico for Outfalls 001, 002, 004, 014, and 015; Bayou Lafourche for Outfalls 005 and 006; Breton Canal for Outfall 007 and 008; and Bayou Moreau for Outfall 018.

No LAT/LONG in permit

Outfall 001-pumping platform discharge: No Discharge of Free Oil

Outfall 002-control platform sanitary discharge: Monitor Flow, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the control platform and prior to commingling with any other stream.

Outfall 004-brine disposal: Flow limits 25.2/25.2 MGD, O&G limits of 10/15 mg/L, Monitor TDS (total dissolved filterable residue), (all daily avg/daily max); Corrosion inhibitor and Oxygen scavenger "see

Part III," pH limits 6.0- 9.0 s.u.. Sample location: The sampling station on the brine discharge pipeline.

Outfall 005-small boat harbor area hose testing): Monitor Flow (MGD), O&G limits of 10/15 mg/L; (both daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: the outfall from the oil removal treatment system for hose testing at the small boat harbor.

Outfalls 006, 007, and 008. (006-Small Boat Harbor Sanitary, 007-Operations Center Sanitary, 008-Storage Terminal Sanitary): Monitor Flow (MGD), BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml; (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment units.

Outfall 012 and 018 (012-Clovelly Storage Terminal Tank Dike Runoff, 018- Fourchon Booster Station Dike Runoff): Monitor Flow (MGD) and O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample locations: 012-at the outfall from the Clovelly tank dike area, 018-at the outfall from the Fourchon Booster Station dike area.

Outfall 014-control platform vapor compression blowdown): Monitor Flow (MGD), (daily avg/daily max); Copper limit of 1.0 mg/L, Chlorine limit of 1.0 mg/L, (both daily max), pH limits 6.0- 9.0 s.u.. Sample location: the blowdown outfall from the vapor compression distillation unit on the control platform located approximately 18 miles offshore in Grand Isle Block 59.

Outfall 015-pumping platform non-contact cooling water): Flow limits 2.16/2.70 MGD, Chlorine limits of 0.5/1.0 mg/L, Monitor Temperature,(all daily avg/daily max); pH limits 6.0- 9.0 s.u.. Sample location: at the non-contact cooling water outfall at the pumping platform located approximately 18 miles offshore in Grand Isle Block 59.

(excerpts) Part III – Other Requirements:

D. Monitoring shall be conducted in accordance with the requirements of the U.S. Department of Transportation license (Annex A part 8) and the Louisiana Offshore Terminal Authority. EPA shall be kept informed on monitoring plan development and results of such monitoring. If the monitoring plan proposed is judged by EPA to be inadequate to provide the needed information to evaluate environmental effects this permit may be modified to require additional monitoring.

E. Applicable to Outfall 004:

1. The permittee shall design, construct, and operate a diffusion system for brine disposal (004) to achieve a maximum rate of diffusion while minimizing the area which may be adversely affected.

2. If the permittee used an oxygen scavenger, the concentration shall be no greater than 18 ppm K_2SO_3/ppm DO or 10 ppm NH_4SO_3/ppm DO. The permittee shall maintain a detectable DO level in the pipeline at all times. A report of the mean DO level and the monthly range of DO shall be provided to EPA monthly.

3. After leaching operations are completed and during prolonged periods of static operations (i.e., no discharge) a corrosion inhibitor may be used to protect the brine line from corrosion. Permittee shall notify this Agency prior to addition of inhibitor, and also prior to discharge of pipeline volume upon termination of static operations. Discharge concentration shall in no case exceed 100 mg/L.

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May 12, 1990 – effective date of the NPDES permit signed on May 11, 1990 by the Water Management Division, Director (Myron O. Knudson, P.E.).

Receiving Waters: The Gulf of Mexico for Outfalls 001, 002, 004, and 015; Bayou Lafourche for Outfalls 005 and 006; Breton Canal for Outfalls 007, 008, 019 and 020; and Bayou Moreau for Outfall 018.

No LAT/LONG in permit

Outfall 001-pumping platform discharge: No Discharge of Free Oil

Outfall 002-control platform sanitary discharge: Monitor Flow, BOD limits 30/45 mg/L, TSS limits 30/45 mg/L (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment unit at the control platform and prior to commingling with any other stream.

Outfall 004-brine disposal: Flow limits 25.2/25.2 MGD, O&G limits of 10/15 mg/L, Monitor TDS (total dissolved filterable residue), (all daily avg/daily max); Corrosion inhibitor and Oxygen scavenger "see Part III," [lost pH limits]. Sample location - The sampling station on the brine discharge pipeline.

Outfall 005-small boat harbor area hose testing): Monitor Flow (MGD), O&G limits of 10/15 mg/L; (both daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: the oil removal treatment system for hose testing at the small boat harbor.

Outfalls 006, 007, and 008. (006-Small Boat Harbor Sanitary, 007-Operations Center Sanitary, 008-Storage Terminal Sanitary): Monitor Flow (MGD), BOD limits 30/45 mg/L, TSS limits 30/45 mg/L, FC 200/400 per 100 ml; (all are daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample location: at the outfall from the sewage treatment units.

Outfalls 012, 018, 019 and 020 (012-Clovelly Storage Terminal Tank Dike Runoff, 018- Fourchon Booster Station Dike Runoff, 019-Retention dike containment structure runoff, 020-Gasoline Tank retention dike runoff): Monitor Flow (MGD) and O&G limits of 10/15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample locations: 012-at the outfall from the Clovelly tank dike area, 018-at the outfall from the Fourchon Booster Station dike area, 019-at the outlet from the retention dike containment structure, and 020-at the outfall from the Gasoline Tank retention dike.

Outfall 015-pumping platform non-contact cooling water): Flow limits 2.16/2.70 MGD, Chlorine limits of 0.5/1.0 mg/L, [lost Temperature monitoring and pH limits]. Sample location: at the non-contact cooling water outfall at the pumping platform located approximately 18 miles offshore in Grand Isle Block 59.

(excerpts) **Part II** – Other Requirements:

D. Monitoring shall be conducted in accordance with the requirements of the U.S. Department of Transportation license (Annex A part 8) and the Louisiana Offshore Terminal Authority. EPA shall be kept informed on monitoring plan development and results of such monitoring. If the monitoring plan proposed is judged by EPA to be inadequate to provide the needed information to evaluate environmental effects this permit may be modified to require additional monitoring.

E. Applicable to Outfall 004:

1. The permittee shall design, construct, and operate a diffusion system for brine disposal (004) to achieve a maximum rate of diffusion while minimizing the area which may be adversely affected.

2. If the permittee used an oxygen scavenger, the concentration shall be no greater than 18 ppm K_2SO_3/ppm DO or 10 ppm NH_4SO_3/ppm DO. The permittee shall maintain a detectable DO level in the pipeline at all times. A report of the mean DO level and the monthly range of DO shall be provided to EPA monthly.

3. After leaching operations are completed and during prolonged periods of static operations (i.e., no discharge) a corrosion inhibitor may be used to protect the brine line from corrosion. Permittee shall notify this Agency prior to addition of inhibitor, and also prior to discharge of pipeline volume upon termination of static operations. Discharge concentration shall in no case exceed 100 mg/L.

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LDEQ assumed the LPDES Program on August 27, 1996.

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February 1, 2003 – effective date of the **first Joint State/EPA permit** "issued" on January 21, 2003 by the LDEQ Assistant Secretary (Linda Korn Levy) and EPA Water Quality Protection Division, Director (Miguel I. Flores).

Receiving Waters: 001, 002, 004, and 015-Gulf of Mexico; Outfalls 005 and 006-Bayou Lafourche; Outfalls 007, 008, 012, 020 and 022-Breton Canal; Outfalls 018 and 023-Bayou Moreau; Outfall 021-LL&E Canal

Has LAT/LONG of all outfalls on page 1 of the permit.

Outfall 001-the intermittent discharge of stormwater runoff from the oily water system located on the pumping platform in the Gulf of Mexico [...regulatory jurisdiction of EPA].

No Discharge of Free Oil

The discharge is through the sea sump 45 feet below the surface of the water adjacent to the pumping platform.

Outfall 004-the discharge of brine from the brine reservoir [...regulatory jurisdiction of LDEQ].

Monitor Flow MGD (monthly avg, daily max); O&G limits of 10/15 mg/L, Monitor TDS, Temperature, Chloride, (all daily avg/daily max); pH limits 6.0- 9.0 s.u.. (see text re: corrosion inhibitor and oxygen scavenger)

Sample location: 004-at the brine diffuser located approximately 2.5 miles southeast of the mouth of Bayou Lafourche.

Outfall 005-marine cargo hose testing water, stormwater from the general surface area of the testing facility, stormwater and wash water from the oil spill equipment cleaning pad and stormwater from the containment area surrounding the oily water tank at the small boat harbor [...regulatory jurisdiction of LDEQ].

Monitor Flow (MGD) (monthly avg, daily max); TOC limit of 50 mg/L, COD limit of 100 mg/L, O&G limit of 15 mg/L, (all daily max), pH limits 6.0- 9.0 s.u..

Sample location prior to combining with other waters: from a pipe into Bayou Lafourche from the secondary containment area around the oily water tank located at LOOP's Small Boat Harbor …. LAT/LONG.

Outfalls 012, 018, 020, 021, and 022-the intermittent discharge of stormwater runoff […regulatory jurisdiction of LDEQ].

Monitor Flow (MGD) (monthly avg, daily max); TOC limit of 50 mg/L, O&G limit of 15 mg/L (daily avg/daily max), pH limits 6.0- 9.0 s.u.. Sample locations prior to combining with other waters: (see permit for details on each outfall with LAT/LONG.

Outfall 015-discharge of non-contact cooling water […regulatory jurisdiction of EPA].

Flow limits 4.32/5.4 MGD, TOC limit of 5 mg/L, O&G limit of 15 mg/L (daily avg/daily max), Chlorine limits of 0.5/1.0 mg/L, pH limits 6.0- 9.0 s.u., Biomonitoring 1/quarter [Biomonitoring shall only be required during periods of chlorination or other biocide usage. The permittee shall notify DEQ & EPA no later than 30 days prior to commencement of its chlorination activities.]

Sample location: at the point of discharge from the non-contact cooling water system on the pumping platform at LOOP's Marine Terminal in the Gulf of Mexico.

Outfalls 002 (EPA), and 006, 007, 008, 023 (LDEQ)-discharge of treated sanitary wastewater

Monitor Flow (MGD), BOD limit 45 mg/L, TSS limit 45 mg/L, FC 400 per 100 ml, TRC 2.0 mg/L; (all are daily max), pH limits 6.0- 9.0 s.u.. [except] Outfall 002 shall only be monitored for Flow, TSS, BOD and pH.

Sample location: 002 – Sewage treatment package plant located on the control platform at LOOP's Marine Terminal in the Gulf of Mexico, LAT/LONG. See permit for more info.