STRATEGIC PETROLEUM RESERVE PROJECT PROPOSAL

(M&O CONTRACTOR FORM)

SITE(S) AFFECTED: SJ	
CONTRACTOR CHANGE NO.: 70625	REV:
☒ ENGINEERING CHANGE:	
☐ OTHER: (ADMIN/NON-ENGR. CHNG)	
ECP NO.:	

SECTION I - SUMMARY INFORMATION

TITLE: RELOCATE BAYOU CHOCTAW CRUDE OIL SAMPLER AT ST. JAMES TERMINAL

SPONSOR: B. BIRCH/B. BIRCH

ORG: 10775

PHONE: 77-252/77-252

RECOMMENDED RANK: 06

FUNDING/SCHEDULE IMPACT

SOURCE	TOTAL ESTIMATED COST	SCHEDULING
☐ SPR BLI _____	FY _____ _____ _____	☐ NO IMPACT
☐ CONTRACTOR BASELINE		☐ NEW SCHEDULE REQ'D.
☐ O&M	DESIGN	☐ SCHEDULE CHANGE REQ'D.
☐ LE	CONSTRUCTION/ IMPLEMENTATION _____ _____ _____	☐ MILESTONE _____
☐ MM		☐ CMCR NO. _____
☐ OTHER _____	TOTAL: — — —	
☐ BCR		

AUTHORITY

- ☒ PCCB
- ☒ CLASS I
- ☐ ECC
- ☐ CLASS II
- ☐ CONTRACTOR

FINAL DISPOSITION

- ☐ APPROVAL
- ☐ CONDITIONAL APPROVAL
- ☐ DISAPPROVED
- ☐ CANCELLED

SECTION II - DYNMcDERMOTT REVIEW AND APPROVAL (CLASS II)

REVIEWERS (NAME/ORG.)	CONCURRENCE YES	CONCURRENCE NO	COMMENTS:
SITE MANAGER	☐	☐	
SITE ENGINEER	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	
	☐	☐	

TRB CHAIRMAN: H K Wright	DATE	DISPOSITION: ☑ CONCUR ☐ APPROVED ☐ DISAPP. ☐ CANCELLED	COMMENTS: Reviewed with DOE PM and PO representative.
O&M PROJECTS COORDINATOR: Tony Garner	DATE: 2/14/96	DISPOSITION: ☑ CONCUR ☐ APPROVED ☐ DISAPP. ☐ CANCELLED	

TRBSUM2.DOT

Strategic Petroleum Reserve

ENGINEERING CHANGE PROPOSAL

SUMMARY SHEET

CLASS I CHANGE

ECP NUMBER	ECP TITLE
SJ-m/o-4599	RELOCATE BAYOU CHOCTAW CRUDE OIL SAMPLER AT ST. JAMES TERMINAL

BUDGET SOURCE

- ☐ SPR BLI _____
- ☐ CONTRACTOR BASELINE
- ☐ BCR
- ☐ OTHER LOE

AUTHORITY

- ☐ PCCB
- ■ ~~ECC~~

SCHEDULE

- ☐ YES
  - MILESTONE NUMBER _____
  - CMCR NUMBER _____
- ■ NO

TOTAL ESTIMATED COST OF CHANGE

	FY96	FY	FY
DESIGN	$1,000	____	____
CONSTRUCTION	$5,000	____	____
TOTAL	$6,000	____	____

PCCB/ECC SIGNATURES	DISPOSITION: CONCUR	DISPOSITION: NON CONCUR	DISPOSITION: DATE	COMMENTS CONDITIONS/LIMITATIONS
DOE SENIOR SITE OFFICIAL	X		2/14/96	See Attached ECK
~~APM TECHNICAL ASSURANCE~~				
APM SYSTEMS AND PROJECTS	X		2/15/96	
~~APM MAINTENANCE AND OPERATIONS~~	X		2/14/96	
~~DEPUTY PROJECT MANAGER~~				
DOE CMO				
~~PROJECT MANAGER~~				
~~DEPUTY ASSISTANT SECRETARY - SPR~~				

PCCB/ECC ACTION

- ☒ FULL APPROVAL
- ☐ CONDITIONAL/LIMITED APPROVAL
- ☐ DISAPPROVED

Strategic Petroleum Reserve

ENGINEERING CHANGE PROPOSAL
SUMMARY SHEET
CLASS I CHANGE

CP NUMBER	ECP TITLE RELOCATE BAYOU CHOCTAW CRUDE OIL SAMPLER AT ST. JAMES TERMINAL

BUDGET SOURCE
- ☐ SPR BLI _____
- ☐ CONTRACTOR BASELINE
- ☐ BCR
- ☐ OTHER _____

AUTHORITY
- ☐ PCCB
- ☐ ECC

SCHEDULE
- ☐ YES
  - MILESTONE NUMBER _____
  - CMCR NUMBER _____
- ☐ NO

TOTAL ESTIMATED COST OF CHANGE

	FY96	FY	FY
DESIGN	$1,000	____	____
CONSTRUCTION	$5,000	____	____
TOTAL	$6,000	____	____

PCCB/ECC SIGNATURES	DISPOSITION: CONCUR	DISPOSITION: NON CONCUR	DISPOSITION: DATE	COMMENTS CONDITIONS/LIMITATIONS
DOE SENIOR SITE OFFICIAL	✓		2/14/96	
APM TECHNICAL ASSURANCE				
APM SYSTEMS AND PROJECTS				
APM MAINTENANCE AND OPERATIONS				
DEPUTY PROJECT MANAGER				
DOE CMO				
PROJECT MANAGER				
DEPUTY ASSISTANT SECRETARY - SPR				

PCCB/ECC ACTION

- ☐ FULL APPROVAL
- ☐ CONDITIONAL/LIMITED APPROVAL
- ☐ DISAPPROVED

Strategic Petroleum Reserve
ENGINEERING CHANGE PROPOSAL

ECP NUMBER	ECP TITLE	PAGE 1 OF 3
	RELOCATE BAYOU CHOCTAW CRUDE OIL SAMPER AT ST. JAMES TERMINAL	

CONTRACTOR CHANGE NO./REV.	INITIATED BY	DATE:	SUBMITTED BY	DATE
70625	B. BIRCH B. Birch	77-252	B. BIRCH B. Birch	77-252
PRIORITY	**ORG./CONTRACTOR**	**PHONE NO.**	**ORG./CONTRACTOR**	**PHONE NO.**
☐ EMERGENCY	S. LANDRY S Landry	77-210	J. BARRINGTON	77-210
☒ URGENT				
☐ ROUTINE				

VALUE ENGINEERING	DRAWDOWN CRITICAL	ROM ESTIMATE
☐ VEP (MANDATORY)	☐ YES	$6.000.00
☐ VECP (VOLUNTARY)	☒ NO	

DESCRIPTION
PROBLEM / EXISTING CONFIGURATION:

The Bayou Choctaw crude oil sampler is presently located at the inlet to the Bayou Choctaw meter skid.

PROPOSED SOLUTION/ENHANCEMENT

Relocate the BC crude oil sampler to the outlet piping of the BC meter skid.

REASON/JUSTIFICATION

The present location does not provide proper mixing of the crude oil, therefore the samples are not a homogenous mixture of the components present in the oil . Proper mixing would be accomplished in the meter skid due to valving and other fittings in order to provide a homogenous mixture at the sample point. This will allow the meters to be used as the point of custody transfer in future oil movements through the terminal. DOE has requested that this be done for future oil transfers. This will bring the meter skid into compliance with API standards.

CI'S AFFECTED

Bayou Choctaw Crude Oil Sampler (ASU4)

TECHNICAL ANALYSIS/RECOMMENDATION

A Brief of Proposed Change

IMPLEMENTATION METHOD
- ☐ SUBCONTRACT
- ☐ M&O LABOR (LOE)
- ☒ COMBINATION

ENGINEERING	DATE	DOE SSR	DATE	
Barry Birch	2/7/96	See Attached ECP		☒ CONCUR ☐ NONCONCUR

Strategic Petroleum Reserve
ENGINEERING CHANGE PROPOSAL

ECP NUMBER	ECP TITLE	PAGE 1 OF 3
	RELOCATE BAYOU CHOCTAW CRUDE OIL SAMPER AT ST. JAMES TERMINAL	

CONTRACTOR CHANGE NO./REV.	INITIATED BY	DATE:	SUBMITTED BY	DATE
70625	B. BIRCH B. Birch	77-252	B. BIRCH B. Birch	77-252
PRIORITY	ORG./CONTRACTOR	PHONE NO.	ORG./CONTRACTOR	PHONE NO.
☐ EMERGENCY	S. LANDRY Landry	77-210	J. BARRINGTON	77-210
☒ URGENT				
☐ ROUTINE				

VALUE ENGINEERING	DRAWDOWN CRITICAL	ROM ESTIMATE
☐ VEP (MANDATORY)	☐ YES	$8,000.00
☐ VECP (VOLUNTARY)	☒ NO	

DESCRIPTION
PROBLEM / EXISTING CONFIGURATION:

The Bayou Choctaw crude oil sampler is presently located at the inlet to the Bayou Choctaw meter skid.

PROPOSED SOLUTION/ENHANCEMENT

Relocate the BC crude oil sampler to the outlet piping of the BC meter skid.

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CI'S AFFECTED

Bayou Choctaw Crude Oil Sampler (ASU 4)

TECHNICAL ANALYSIS/RECOMMENDATION

Agree w/ Proposed Change

IMPLEMENTATION METHOD
- ☐ SUBCONTRACT
- ☐ M&O LABOR (LOE)
- ☒ COMBINATION

ENGINEERING	DATE	DOE SSR	DATE	
Barry Birch	2/7/96	James M. Lyons	2/14/96	☒ CONCUR ☐ NONCONCUR

STRATEGIC PETROLEUM RESERVE

ENGINEERING CHANGE PROPOSAL

SOFTWARE, HARDWARE, FIRMWARE CHANGE

CONTRACTOR CHANGE NUMBER	REVISION NUMBER	ECP NUMBER	PAGE
70625			3 OF 3

SOFTWARE CHANGE ANALYSIS

No software change required.

HARDWARE/SOFTWARE AFFECTED

(NOTE: REDLINE CI BOM)

NO Software chgs

DISPOSITION OF PARTS

❑ REWORK SITE COMPONENTS ONLY ❑ REWORK ALL SITE COMPONENTS ❑ COMPONENTS NOT AFFECTED

❑ OTHER (DESCRIBE) _____

COMPONENT COMPATIBILITY (LIST COMPONENTS SEPARATELY IF COMPATIBILITIES ARE DIFFERENT)

❑ INTERCHANGEABLE ❑ DRAWDOWN COMPATIBLE ❑ NONCOMPATIBLE

OPCS SUPPORT ENGINEER	DATE	FUNCTIONAL MANAGER	DATE
		Deborah Hogan	2/14/96

IMPLEMENTATION / TEST COMMENTS

WITNESSED BY	DATE

TEST APPROVED BY	DATE	CHANGE RELEASED AUTHORITY	DATE

STRATEGIC PETROLEUM RESERVE
ENGINEERING CHANGE PROPOSAL
CONFIGURATION CHANGE AFFECED REPORT

TO BE COMPLETED BY TECHNICAL REVIEW PROCESSS, ENGINEERING AND CONFIGURATION MANAGEMENT ORGANIZATION DEFINED PROCESS

ECP NO.	CONRACTOR CHANGE NO.	REV.	CHANGE CLASSIFICATION	PAGE 2 OF 3
	70625		☐ CLASS I ☐ CLASS II	

FUNCTIONS AFFECTED

Y	N	ITEM
	x	LEVEL I ☐ II ☐ III ☐ CRITERIA
	x	PERFORMANCE CRITERIA
	x	RAM
	x	INTERFACE CHARACTERISTICS
	x	I/O POINTS
	x	DOE LEVEL I, II, III SCHEDULES
	x	GUARANTEES/DELIVERABLES
	X	SAFETY/ENV/FP (CIRCLE ONE)
	x	SECURITY REQUIREMENTS
X	X	OPCS SOFTWARE
	x	OPCS HARDWARE
	x	OPCS FIRMWARE
	x	RANGES / I /O POINTS
	x	DIP SWITCH SETTINGS/JUMPERS
	x	MASTER CI LIST
	x	WELLHEAD CONFIGURATION
	x	SPARES/PROVISIONING REQUIREMENTS
	x	OPERATIONS MANUALS
	x	MAINTENANCE MANUALS
	x	GOVERNMENT FURNISHED EQUIPMENT
	x	ENERGY USAGE
	x	VALUE ENG. (COST SAVINGS)
	x	OPERATIONS MODELS
	x	OTHER

DOCUMENTS AFFECTED

Y	N	ITEMS
		PIPING
	X	101 - PROCESS FLOW DIAGRAMS
X		102 - MECHANICAL FLOW DIAGRAMS
X	X	103 - PIPING AND INSTRUMENTATION DIAGRAMS (P&ID'S)
	x	104 - UTILITY FLOW DIAGRAMS
	X	105 - GENERAL PIPING PLANS
	X	106 - AREA PLANS (MECHANICAL EQUIPMENT LOCATION)
	x	122 - WELL HEAD DRAWINGS
	X	130 - VALVE LIST
	x	135 - LINE LIST
	x	140 - PSV LIST
	x	150 - STANDARDS
		CIVIL/STRUCTURAL
	x	201 - PLOT PLANS
	x	202 - SITE WORK: GRADING (ROUGH & FINISH) DRAINAGE FENCING, ETC.
	x	210 - FOUNDATIONS: LOCATION PLANS
	x	216 - MINES (WEEKS ISLAND ONLY)
	x	250 - STANDARDS
		ELECTRICAL
	x	301 - AREA CLASSIFICATION
	x	302 - ONE LINE DIAGRAMS
	x	303 - SCHEMATIC DIAGRAMS
X		304 - POWER PLANS AND DETAILS
	x	305 - LIGHTING PLANS AND DETAILS
	x	307 - SUBSTATION PLANS AND DETAILS
	x	308 - WIRING DIAGRAMS
	x	310 - GROUNDING
	x	311 - CONDUIT & CABLE SCHEDULES (INCLUDING INSTRUMENTS)
	x	313 - MCC/SWITCH GEAR EVALUATION & SCHEDULE

DOCUMENTS AFFECTED

Y	N	ITEM
		ELECTRICAL (cont'd)
	x	315 - CATHODIC PROTECTION
	x	350 - STANDARDS
		INSTRUMENTATION
	x	401 - BLOCK DIAGRAM
	x	402 - LOOP DIAGRAMS
	x	403 - INSTRUMENT PLANS
	x	404 - INSTRUMENT WIRING DIAGRAM
	x	409 - INSTRUMENT INDEX
	x	450 - STANDARDS
		MAPPING
	x	501 - ALIGNMENT SHEETS
	x	509 - PIPELINE DRWGS (MAINLINE VALVES, DRIPS, SCRAPER, TRAPS, ETC.
	x	550 - STANDARDS
		ARCHITECTUAL
	x	720 - ELEVATIONS AND FLOOR PLANS
	x	750 - STANDARDS
		DOCUMENTATION
	x	900 - RESERVED
	x	901 - TECHNICAL/PERFORMANCE/DESIGN CRITERIA
	x	910 - DESIGN DESCRIPTION/BASIS
	x	911 - PROCESS SET POINT DOCUMENTS
	x	912 - EQUIPMENT LIST
	x	913 - MOV LIST
	X	915 - ELECTRICAL SAFETY
	x	920 - I/O DOCUMENT
	x	930 - OPERATIONS AND MAINTENANCE MANUALS
	x	950 - STANDARD SPECIFICATIONS
	x	970 - TASK SPECIFICATIONS
	x	990 - CONFIGURATION MANAGEMENT REPORTS/I.B.M.

COMMENTS:

ENGINEERING	DATE	CONFIGURATION MANAGEMENT	DATE
[signature]	2/14/96	[signature] D.S. Von Nedegraven 2/14/96	2-14-96