

STRATEGIC PETROLEUM RESERVE

**ENGINEERING CHANGE PROPOSAL
SUMMARY SHEET
CLASS I CHANGE**

ECP NUMBER SJ-M/O-4649	TITLE Distribution Enhancement Plains/LOCAP Upgrade WI 20 W1 and WI 20 F2
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BUDGET SOURCE <input type="checkbox"/> SPR BLI _____ <input type="checkbox"/> CONTRACTOR BASELINE <input type="checkbox"/> AUD <input type="checkbox"/> OTHER: Lease Contractor	AUTHORITY <input checked="" type="checkbox"/> PCCB <input type="checkbox"/> ECC
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SCHEDULE <input type="checkbox"/> YES MILESTONE NUMBER _____ CMCR NUMBER _____ <input type="checkbox"/> NO	TOTAL ESTIMATED COST OF CHANGE <table style="width:100%; border: none;"> <tr> <td style="width:60%;"></td> <td style="text-align: right;">FY 06</td> <td style="text-align: right;">FY 07</td> </tr> <tr> <td>DESIGN</td> <td></td> <td></td> </tr> <tr> <td>Construction Management</td> <td></td> <td></td> </tr> <tr> <td>CONSTRUCTION</td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td></td> <td style="text-align: right;">\$ 200,000</td> </tr> </table>		FY 06	FY 07	DESIGN			Construction Management			CONSTRUCTION			TOTAL		\$ 200,000
	FY 06	FY 07														
DESIGN																
Construction Management																
CONSTRUCTION																
TOTAL		\$ 200,000														

PCCB/ECC SIGNATURES	DISPOSITION	COMMENTS CONDITIONS/LIMITATIONS
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	C O N C U R	N O N C U R	D A T E	
DOE SENIOR SITE OFFICIAL				
<i>[Signature]</i> ARM TECHNICAL ASSURANCE	✓		6/5/06	
<i>[Signature]</i> ARM SYSTEMS AND PROJECTS	✓		5/24/06	
<i>[Signature]</i> ARM MAINTENANCE AND OPERATIONS			6/15/06	
<i>[Signature]</i> ARM MANAGEMENT AND ADMINISTRATION	✓		6/15/06	
DOE CMO				
PROJECT MANAGER				
DEPUTY ASSISTANT SECRETARY - SPR				

PCCB/ECC ACTION

FULL APPROVAL
 CONDITIONAL/LIMITED APPROVAL
 DISAPPROVAL



ECP EXECUTIVE SUMMARY

Change Request Number : 04 *SJ-M/O - 4649*

Title : Distribution Enhancement Plains/Locap, Upgrade WI 20 W1 and WI 20 F2

Executive Summary:

The present St. James Terminal (Sugarland) valves WI 20 W1 and WI 20 F2 are not double block and bleed valves. The leak-by from these valves causes oil delivery issues in the terminal. Prior to the proposed distribution enhancements upgrade, this was a nuisance due to oil going someplace other than intended, but was still contained at the St James Terminal. The Distribution Enhancements upgrade, directed by the PMO, provides tie-ins to LOCAP and the new Plains terminals in the event of a domestic supply disruption as experienced during hurricanes Katrina and Rita. These existing valves would result in oil accountability issues due to oil, already measured for off-site delivery, potentially leaking back into the terminal. This ECP will replace the existing valves with double block and bleed valves resolving this oil accountability issue.

DOE JFB

Implementation plan:

DOE will reimburse Shell for the purchase and installation of the double block and bleed valves. (See Exhibit A)

Implementation Cost: (currently being developed by Shell)

2006

Design:
Construction Management:
Construction:
GFE:
LOE:

Total: _____

Life Cycle Cost:

Impact Summary:

Logistics:

Level I, II, III Criteria:

Codes, regulations,
permits, etc.:

Safety, Environmental, Fire
Protection Systems, Security:

Contract completion dates:

GFE:

Schedules:

STRATEGIC PETROLEUM RESERVE ENGINEERING CHANGE PROPOSAL

Task # (s):
BC-06-039

ECP NUMBER SJ-M/o-4649	ECP TITLE Distribution Enhancement Plains/Locap, Upgrade WI 20 W1 and WI 20 F2			PAGE 1 OF 3
CONTRACTOR CHANGE NO. / REV. 04	INITIATED BY Mike Curole <i>Mike Curole</i>	DATE 5/1/2006	SUBMITTED BY Jeff Barab	DATE 5/18/2006
PRIORITY <input checked="" type="checkbox"/> EMERGENCY <input type="checkbox"/> URGENT <input type="checkbox"/> ROUTINE	ORG./CONTRACTOR DOE	PHONE NO. 504-734-4120	ORG./CONTRACTOR SPLC	PHONE NO. 713-241-0765
	VALUE ENGINEERING <input type="checkbox"/> VEP (MANDATORY) <input type="checkbox"/> VECP (VOLUNTARY)	DRAWDOWN CRITICAL <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	ROM ESTIMATE \$200,000	

DESCRIPTION:

PROBLEM / EXISTING CONFIGURATION:
The present St. James Terminal (Sugarland) valves WI-20-W1 and WI-20-F2 are not double block and bleed valves. The Distribution Enhancements upgrade, directed by the PMO, provides tie-ins to LOCAP and the new Plains terminals in the event of a domestic supply disruption as experienced during hurricanes Katrina and Rita. These existing valves would result in oil accountability issues due to oil, already measured for off-site delivery, potentially leaking back into the terminal. This ECP will replace the existing valves with double block and bleed valves resolving this oil accountability issue.

PROPOSED SOLUTION / ENHANCEMENT:
Upgrade the current WI-20-W1 and WI-20-F2 30" ANSI 150# valves with double block and bleed valves. (See Exhibit A)

NOTE:
In order to expedite this project such that installation may occur along with other planned work at the site 3Q-4Q06, approval of this ECP will authorize Shell to order the necessary equipment. Final engineering and installation estimates are currently being developed and will be provided to the DOE for approval prior to construction.

REASON / JUSTIFICATION:
This is an additional distribution enhancement, directed by the ^{DOE job}PMO, to support a domestic crude oil supply disruption as experienced during hurricanes Katrina and Rita and supports the Distribution Enhancements ECP BC-06-026.

C'I'S AFFECTED:

TECHNICAL ANALYSIS / RECOMMENDATION:	IMPLEMENTATION METHOD: <input checked="" type="checkbox"/> SUBCONTRACT <input type="checkbox"/> M&O LABOR (LOE) <input type="checkbox"/> COMBINATION
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ENGINEERING <i>Scott Ald</i>	DATE 05/17/06	DOE SSR	DATE	<input type="checkbox"/> CONCUR <input type="checkbox"/> NONCONCUR
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STRATEGIC PETROLEUM RESERVE
ENGINEERING CHANGE PROPOSAL
CONFIGURATION CHANGE AFFECTED REPORT

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

ECP NO.: SJ-M/O-4649	CONTRACTOR CHANGE NO. / REV.: 04	CHANGE CLASSIFICATION: <input checked="" type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II	PAGE 2 OF 3
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FUNCTIONS AFFECTED		DOCUMENTS AFFECTED	
YES/NO	ITEM	YES/NO	ITEM
NO	<input checked="" type="checkbox"/> LEVEL I <input type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III CRITERIA		ELECTRICAL (cont'd)
NO	PERFORMANCE CRITERIA	NO	308 - WIRING DIAGRAMS
NO	RAM	NO	310 - GROUNDING
YES	INTERFACE CHARACTERISTICS	NO	311 - CONDUIT & CABLE SCHEDULES (INCLUDING INST.)
NO	I/O POINTS	NO	313 - MCC/SWITCH GEAR ELEVATION & SCHEDULE
NO	DOE LEVEL I, II, III SCHEDULES	NO	315 - CATHODIC PROTECTION
NO	GUARANTEES/DELIVERABLES	NO	350 - STANDARDS
NO	<input type="checkbox"/> SAFETY/ <input type="checkbox"/> ENV / <input type="checkbox"/> FP		INSTRUMENTATION
NO	SECURITY REQUIREMENTS	NO	401 - BLOCK DIAGRAM
NO	OPCS SOFTWARE	NO	402 - LOOP DIAGRAMS
NO	OPCS HARDWARE	NO	403 - INSTRUMENT PLANS AND DETAILS
NO	OPCS FIRMWARE	NO	404 - INSTRUMENT WIRING DIAGRAM
NO	SETPOINTS/RANGES	NO	409 - INSTRUMENT INDEX
NO	DIP SWITCH SETTINGS/JUMPERS	NO	450 - STANDARDS
NO	MASTER CI LIST		MAPPING
NO	WELLHEAD CONFIGURATION	YES	501 - ALIGNMENT SHEETS
NO	SPARES/PROVISIONING REQUIREMENTS	YES	509 - PIPELINE DRWGS (MAINLINE VALVES, DRIPS, SCRAPER, TRAPS, ETC.)
YES	GOVERNMENT FURNISHED EQUIPMENT	NO	550 - STANDARDS
NO	ENERGY USAGE		ARCHITECTURAL
NO	OPERATIONS MODELS	NO	720 - ELEVATIONS AND FLOOR PLANS
NO	OTHER	NO	750 - STANDARDS
	DOCUMENTS AFFECTED ITEMS		DATA SYSTEMS
	PIPING	NO	801 - PHYSICAL DIAGRAMS
YES	101 - PROCESS FLOW DIAGRAMS	NO	802 - LOGICAL / BLOCK DIAGRAMS
YES	102 - MECHANICAL FLOW DIAGRAMS	NO	810 - SYSTEM / DEVICE CONFIGURATION SETTINGS
YES	103 - PIPING AND INSTRUMENTATION DIAGRAMS (P&ID'S)	NO	820 - CYBER SECURITY
NO	104 - UTILITY FLOW DIAGRAMS	NO	850 - STANDARDS
YES	105 - GENERAL PIPING PLANS	NO	870 - EQUIPMENT SPECIFICATIONS
NO	106 - AREA PLANS (MECHANICAL EQUIPMENT LOCATION)	NO	880 - SYSTEM / APPLICATION SPECIFICATIONS
NO	122 - WELL HEAD DRAWINGS		DOCUMENTATION
NO	123 - WELL COMPLETION CONFIGURATION DRAWINGS	NO	900 - RESERVED
YES	130 - VALVE LIST	NO	901 - TECHNICAL/PERFORMANCE/DESIGN CRITERIA
YES	135 - LINE LIST	YES	910 - DESIGN DESCRIPTION/BASIS
NO	140 - PSV LIST	NO	911 - PROCESS SET POINT DOCUMENTS
NO	150 - STANDARDS	NO	912 - EQUIPMENT LIST
NO	CIVIL/STRUCTURAL	YES	913 - MOV LIST
NO	201 - PLOT PLANS	NO	915 - ELECTRICAL SAFETY
NO	202 - SITE WORK: GRADING (ROUGH & FINISH & DRAIN FENCING)	NO	920 - I/O DOCUMENT
NO	210 - FOUNDATIONS: LOCATION PLANS	NO	930 - OPERATIONS MANUALS
NO	216 - MINES (WEEKS ISLAND ONLY)	NO	930 - MAINTENANCE MANUALS
NO	250 - STANDARDS	NO	950 - STANDARD SPECIFICATIONS
NO	ELECTRICAL	NO	970 - TASK SPECIFICATIONS
NO	301 - AREA CLASSIFICATION	NO	990 - CONFIGURATION MANAGEMENT REPORTS/I.B.O.M.
NO	302 - ONE LINE DIAGRAMS	COMMENTS:	
NO	303 - SCHEMATIC DIAGRAMS		
NO	304 - POWER PLANS AND DETAILS		
NO	305 - LIGHTING PLANS AND DETAILS		
NO	307 - SUBSTATION PLANS AND DETAILS		
NO			

ENGINEERING	DATE	CONFIGURATION MANAGEMENT	DATE
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**STRATEGIC PETROLEUM RESERVE
ENGINEERING CHANGE PROPOSAL
SOFTWARE, HARDWARE, FIRMWARE CHANGE**

CONTRACTOR CHANGE NUMBER / REV:
04

ECP NUMBER:

SJ-M/O-4649

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SOFTWARE CHANGE ANALYSIS

HARDWARE/SOFTWARE AFFECTED

(NOTE: REDLINE CI BOM)

DISPOSITION OF PARTS

- REWORK SITE COMPONENTS ONLY
 REWORK ALL SITE COMPONENTS
 COMPONENTS NOT AFFECTED
 OTHER (DESCRIBE) _____

COMPONENT COMPATIBILITY (LIST COMPONENTS SEPARATELY IF COMPATIBILITY'S ARE DIFFERENT)

- INTERCHANGEABLE
 DRAWDOWN COMPATIBLE
 NONCOMPATIBLE

OPCS SUPPORT ENGINEER

DATE

FUNCTIONAL MANAGER

DATE

IMPLEMENTATION / TEST COMMENTS:

WITNESSED BY

DATE

TEST APPROVED BY

DATE

CHANGE RELEASE AUTHORITY

DATE

Distribution Enhancement Plains/Locap, Upgrade WI 20 W1 and WI 20 F2 Exhibit A

