

STRATEGIC PETROLEUM RESERVE

ENGINEERING CHANGE PROPOSAL

SUMMARY SHEET

CLASS I CHANGE

WR#

ECP NUMBER BC-M/O-3742	TITLE Bayou Choctaw Phone Line to VSAT Conversion																	
BUDGET SOURCE <input type="checkbox"/> SPR BLI <input type="checkbox"/> CONTRACTOR BASELINE <input type="checkbox"/> BCR <input type="checkbox"/> OTHER	AUTHORITY <input checked="" type="checkbox"/> PCCB <input type="checkbox"/> ECC																	
	SCHEDULE <input type="checkbox"/> YES MILESTONE NUMBER CMCR NUMBER <input type="checkbox"/> NO	TOTAL ESTIMATED COST OF CHANGE <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">FY 02</th> <th style="width: 10%;">FY</th> <th style="width: 10%;">FY</th> </tr> </thead> <tbody> <tr> <td>DESIGN</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>CONSTRUCTION/M&O</td> <td style="text-align: center;"><u>10M</u></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: center;"><u>10M</u></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> </tbody> </table>			FY 02	FY	FY	DESIGN	—	—	—	CONSTRUCTION/M&O	<u>10M</u>	—	—	TOTAL	<u>10M</u>	—
	FY 02	FY	FY															
DESIGN	—	—	—															
CONSTRUCTION/M&O	<u>10M</u>	—	—															
TOTAL	<u>10M</u>	—	—															
PCCB / ECC SIGNATURES	DISPOSITION																	
	C O N C U R	N C O O N N C U R	D A T E															
DOE SENIOR SITE OFFICIAL <i>G. M. Kelley for CT DeBarn</i>	X		2/15/02															
APM TECHNICAL ASSURANCE <i>Suzel Hele</i>	X		3/19/02															
APM SYSTEMS AND PROJECTS <i>for M. Stumbaj</i>	✓		3/19/02															
APM MAINTENANCE AND OPERATIONS	✓		3/19/02															
DEPUTY PROJECT MANAGER																		
DOE CMO																		
PROJECT MANAGER																		
DEPUTY ASSISTANT SECRETARY -SPR																		
COMMENTS CONDITIONS / LIMITATIONS																		
<i>The work of this ECP is not Unfunded Liability. Agreed to by DOE + Equilon. * Should be no cost to DOE LG</i>																		
PCCB / ECC ACTION																		
<input checked="" type="checkbox"/> FULL APPROVAL <input type="checkbox"/> CONDITIONAL / LIMITED APPROVAL <input type="checkbox"/> DISAPPROVAL																		

STRATEGIC PETROLEUM RESERVE

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ENGINEERING CHANGE PROPOSAL

ECP NUMBER BC-M/O-3742	ECP TITLE Bayou Choctaw Phone Line to VSAT Conversion	PAGE 1 OF <u>1</u>
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CONTRACTOR CHANGE NO./REV.	INITIATED BY Robert Smith	DATE 01/31/02	SUBMITTED BY Jill Derise	DATE 02/13/02
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PRIORITY <input type="checkbox"/> EMERGENCY <input checked="" type="checkbox"/> URGENT <input type="checkbox"/> ROUTINE	ORG./CONTRACTOR Equilon Pipeline	PHONE NO. 5047287157	ORG./CONTRACTOR Equilon Pipeline	PHONE NO. 5047287366
	VALUE ENGINEERING DRAWDOWN CRITICAL ROM ESTIMATE <input type="checkbox"/> VEP (MANDATORY) <input type="checkbox"/> YES \$ 10,000 _____ <input checked="" type="checkbox"/> VECP (VOLUNTARY) <input type="checkbox"/> NO			

DESCRIPTION:
 PROBLEM / EXISTING CONFIGURATION
Equilon's Houston-based Control Center currently operates this facility via a 4 wire dedicated phone circuit. This phone circuit has proven to be unreliable and expensive to maintain. Equilon's proposal is to replace the phone connection with a satellite dish (VSAT).
Expected start date for the project is 04/01/02.
Installation cost estimate includes:

Labor	\$5,000
Eng/Programming	\$2,500
Materials	\$2,500
Total	\$10,000

 PROPOSED SOLUTION / ENHANCEMENT
Equilon Pipeline would install satellite communications at this location. This is becoming the standard method of RTU installation for the company. Existing operations at the location would not be changed. The data would be shipped back to the Houston Control Center via satellite rather than by phone wire.

REASON / JUSTIFICATION
The reliability of the Control Center to operate this station will be improved, and the total cost of operating the station will be reduced. The existing dedicated phone circuit costs \$643/month. The VSAT costs will be \$90/month and with the initial installation cost will take approximately 2 years to pay out.

CI'S AFFECTED

TECHNICAL ANALYSIS/RECOMMENDATION	IMPLEMENTATION METHOD <input type="checkbox"/> SUBCONTRACT <input type="checkbox"/> M&O LABOR (LOE) <input type="checkbox"/> COMBINATION
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ENGINEERING Robert Smith	DATE 1/31/02	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

WR #

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

ECP NO. BC-M/O-3742	CONTRACTOR CHANGE NO.	REV.	CHANGE CLASSIFICATION <input checked="" type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II	PAGE 2 OF
FUNCTIONS AFFECTED			DOCUMENTS AFFECTED	
YES/NO	ITEM	YES/NO	ITEM	
NO	LEVEL I <input checked="" type="checkbox"/> LEVEL II <input type="checkbox"/> CRITERIA		ELECTRICAL (cont'd)	
NO	PERFORMANCE CRITERIA	NO	315 - CATHODIC PROTECTION	
NO	RAM	NO	350 - STANDARDS	
NO	INTERFACE CHARACTERISTICS		INSTRUMENTATION	
NO	I/O POINTS	NO	401 - BLOCK DIAGRAM	
NO	DOE LEVEL I, II, III SCHEDULES	NO	402 - LOOP DIAGRAMS	
NO	GUARANTEES/DELIVERABLES	NO	403 - INSTRUMENT PLANS	
NO	SAFETY/ENV/FP (CIRCLE ONE)	NO	404 - INSTRUMENT WIRING DIAGRAM	
NO	SECURITY REQUIREMENTS	NO	409 - INSTRUMENT INDEX	
NO	OPCS SOFTWARE	NO	450 - STANDARDS	
NO	OPCS HARDWARE		MAPPING	
NO	OPCS FIRMWARE	NO	501 - ALIGNMENT SHEETS	
NO	SETPOINTS/RANGES	NO	509 - PIPELINE DRWGS (MAINLINE VALVES, DRIPS, SCRAPER, TRAPS, ETC.)	
NO	DIP SWITCH SETTINGS/JUMPERS	NO	550 - STANDARDS	
NO	MASTER CI LIST		ARCHITECTUAL	
NO	WELLHEAD CONFIGURATION	NO	720 - ELEVATIONS AND FLOOR PLANS	
NO	SPARES/ROVISIONING REQUIREMENTS	NO	750 - STANDARDS	
NO	GOVERNMENT FURNISHED EQUIPMENT		DOCUMENTATION	
NO	ENERGY USAGE	NO	900 - RESERVED	
NO	OPERATIONS MODESL	NO	901 - TECHNICAL/PERFORMANCE/DESIGN CRITERIA	
YES	OTHER	NO	910 - DESIGN DESCRIPTION/BASIS	
	DOCUMENTS AFFECTED	NO	911 - PROCESS SET POINT DOCUMENTS	
YES/NO	ITEMS	NO	912 - EQUIPMENT LIST	
	PIPING	NO	913 - MOV LIST	
NO	101 - PROCESS FLOW DIAGRAMS	NO	915 - ELECTRICAL SAFETY	
NO	102 - MECHANICAL FLOW DIAGRAMS	NO	920 - I/O DOCUMENT	
NO	103 - PIPING AND INSTRUMENTATION DIAGRAMS (P&ID'S)	NO	930 - OPERATIONS MANUALS	
NO	104 - UTILITY FLOW DIAGRAMS	NO	930 - MAINTENANCE MANUALS	
NO	105 - GENERAL PIPING PLANS	NO	950 - STANDARD SPECIFICATIONS	
NO	106 - AREA PLANS (MECHANICAL EQUIPMENT LOCATION)	NO	970 - TASK SPECIFICATIONS	
NO	122 - WELL HEAD DRAWINGS	NO	990 - CONFIGURATION MANAGEMENT REPORTS/I.B.M.	
NO	130 - VALVE LIST	COMENTS:		
NO	135 - LINE LIST			
NO	140 - PSV LIST			
NO	150 - STANDARDS			
	CIVIL/STRUCTURAL			
NO	201 - PLOT PLANS			
NO	202 - SITE WORK: GRADING (ROUGH & FINISH) DRAIN FENCING			
NO	210 - FOUNDATIONS: LOCATION PLANS			
NO	216 - MINES (WEEKS ISLAND ONLY)			
NO	250 - STANDARDS			
	ELECTRICAL			
NO	301 - AREA CLASSIFICATION			
NO	302 - ONE LINE DIAGRAMS			
NO	303 - SCHEMATIC DIAGRAMS			
NO	304 - POWER PLAND AND DETAILS			
NO	305 - LIGHTING PLAND AND DETAILS			
NO	307 - SUBSTATION PLANS AND DETAILS			
NO	308 - WIRING DIAGRAMS			
NO	310 - GROUNDING			
NO	311 - CONDUIT & CABLE SCHEDULES (INCLUDING INST.)			
NO	313 - MCC/SWITHC GEAR EVALUATION & SCHEDULE			
ENGINEERING	DATE	CONFIGURATION MANAGEMENT	DATE	
		Patty Chael 3/13/02		

STRATEGIC PETROLEUM RESERVE

ENGINEERING CHANGE PROPOSAL

SOFTWARE, HARDWARE, FIRMWARE CHANGE

WR #

CONTRACTOR CHANGE NUMBER	REVISION NUMBER	ECP NUMBER BC-M/O-3742	PAGE 3 OF
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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 SEPERATELY IF COMPATIBILITIES ARE DIFFERENT)

INTERCHANGEABLE
 DRAWDOWN COMPATIBLE
 NONCOMPATIBLE

OPCS SUPPORT ENGINEER DATE FUNCTIONAL MANAGER DATE

IMPLEMENTATION / TEST COMMENTS

WITNESSED BY	DATE
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TEST APPROVED BY	DATE	CHANGE RELEASE AUTHORITY	DATE
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NUMBER: BC-M/O-3742
TITLE:

EXECUTIVE SUMMARY:

IMPLEMENTATION PLAN:

IMPLEMENTATION COST:

**DESIGN:
CONSTRUCTION:**

TOTAL:

LIFE CYCLE COST:

The \$10K implementation cost for the VSAT communications system is expected to be recouped in approximately 2 yrs. This is due to its relatively lower cost compared to maintaining the existing dedicated land line. In addition, VSAT is known to be a more reliable communication system than a dedicated land line system.

IMPACT SUMMARY:

LEVEL I, II, III CRITERIA:

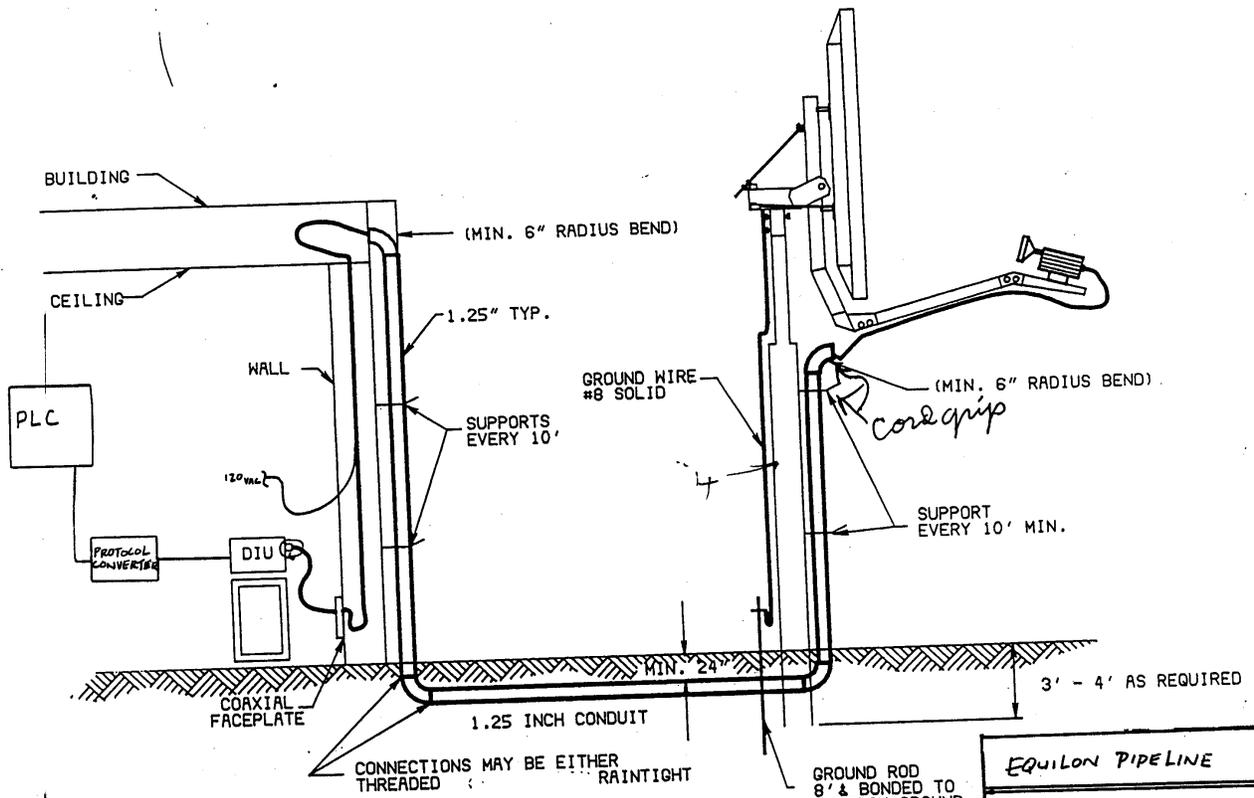
CONTRACT COMPLETION DATES:

**CODES, REGULATIONS,
PERMITS, ETC.:**

GFE:

**SAFETY, ENVIRONMENTAL, FIRE
PROTECTION SYSTEMS, SECURITY:**

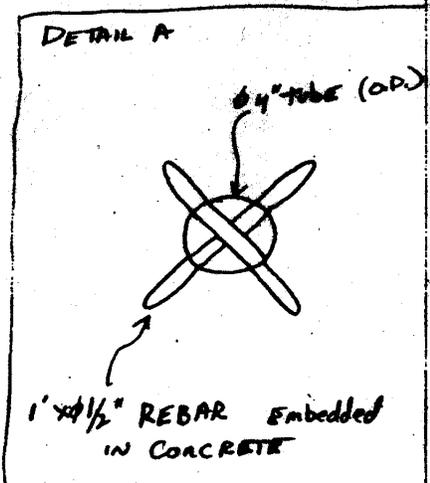
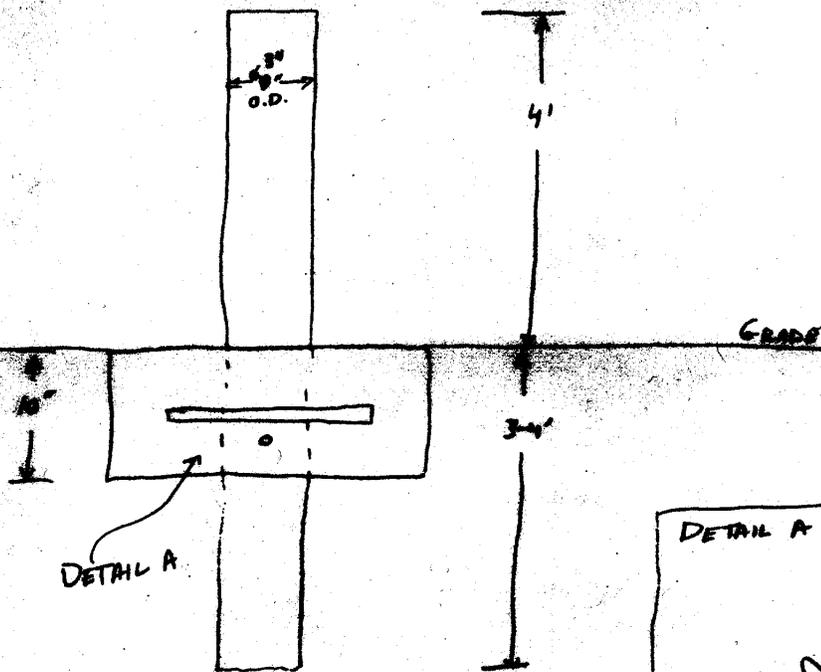
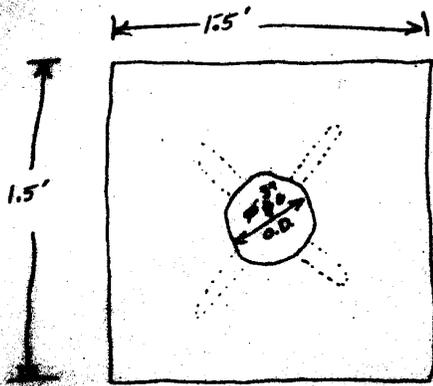
SCHEDULES:



- NOTE:
- IN AREAS WHERE A DISH HEATER IS REQUIRED, A SEPERATE RUN OF CONDUIT WILL BE REQUIRED TO POWER THE HEATER.
 - ALL CONDUIT SHALL BE RIGID METAL CONDUIT (1.25 INCH FOR IFL CABLE 3/4" FOR HEATER WIRE) Install conduit with pull string
 - IN BUILDINGS WITH NO INTERIOR WALLS, COAX SHALL BE IN CONDUIT
 - GROUND WIRE TO BE BONDED TO STATION GROUND GRID

EQUILON PIPELINE	
TYPICAL VSAT INSTALLATIO	
SCALE NONE	DATE REF.
DRAWN DPM	
CHECKED ROBERT SMITH	01/31/02 SA-XXXXX
APPROVED	
REV. APP.	

BASE DESIGN AND MOUNTING GUIDELINES



Chael, Patricia

From: Calais, Michael
Sent: Wednesday, March 13, 2002 8:06 AM
To: Chael, Patricia
Subject: FW: ECP Submittal Schedule and Estimate Clarifications

-----Original Message-----

From: Hojem, Deborah
Sent: Thursday, March 07, 2002 10:50 AM
To: Calais, Michael
Cc: Franklin, Michelle
Subject: FW: ECP Submittal Schedule and Estimate Clarifications

[Here is the cost and schedule estimate for the VSAT change. Michelle has the ECP for processing.](#)

Deborah

-----Original Message-----

From: Elias, Wayne
Sent: Thursday, February 28, 2002 2:15 PM
To: Hojem, Deborah
Subject: FW: ECP Submittal Schedule and Estimate Clarifications

Deborah: Please use the following information for the cost and schedule for the subject ECPs.

-----Original Message-----

From: Maldonado, Julio
Sent: Thursday, February 28, 2002 1:04 PM
To: Elias, Wayne
Cc: Defusco, Louis; Shourbaji, Nabil
Subject: FW: ECP Submittal Schedule and Estimate Clarifications

Wayne,

[Equilon's e-mail below provides the information you requested on cost breakdown and schedule for aiding in evaluation of the ECPs on the "VSAT Communications Conversion", and "Replacement of 88' of BC Pipeline". Please expedite their approval.](#)

Thanks,
Julio

-----Original Message-----

From: Derise JE (Jill) [mailto:JEDerise@equilon.com]
Sent: Thursday, February 28, 2002 10:54 AM
To: Williams, Jerome; Maldonado, Julio
Cc: Pimley WJ (Bill); Smith RJ (Robert); Barab JB (Jeff); Krebs RE (Richard)
Subject: ECP Submittal Schedule and Estimate Clarifications

Julio,

Per our conversation this morning, Equilon has the following clarifications regarding two recent ECP submittals:

1. ECP Submittal: Redstick Pipeline - Replace 88' of 36" Mainline Pipe:

Schedule: The work will be initiated within 1 month of ECP approval. The work will be physically complete 3 weeks following initiation.

Estimate: The \$250,000 total estimate is further described as:

3/13/2002

Materials	\$20,000
Labor	\$200,000
Engineering	\$30,000

2. ECP Submittal: Bayou Choctaw Phone Line to VSAT Conversion:

Schedule: The work will be initiated within 2 weeks of ECP approval, contingent upon security clearance/access to Bayou Choctaw. The work will be physically complete 3 weeks following initiation.

Estimate: We feel the estimate included with the original ECP submittal is detailed enough, but if you need more let me know.

I will send further clarifications regarding the ECP Submittal for the Tank 1 Relief Line Re-route next week.

Thank you,
Jill E. Derise
Capline/Chemical Technical Supervisor
Equilon Pipeline Company LLC, GOM Region
phone 504-728-7366
fax 504-728-7561
pager 1-800-439-7417
jederise@equilon.com