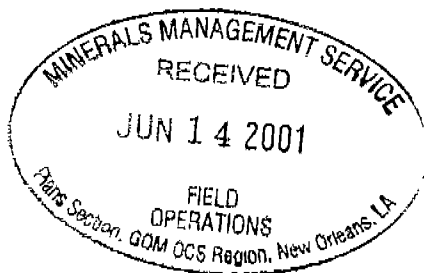


AG's
Williams Sec 22084
CAN STAPLE

June 12, 2001

Mr. Donald C. Howard
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394



Williams Field Services
Gulf Coast Company, L.P.
P.O. Box 645
Tulsa, Oklahoma 74101-0645
1800 South Baltimore
Tulsa, Oklahoma 74119-5284
918/581-1800
918/560-9115 fax

Attention: Mr. Nick Wetzel
Plans Unit Supervisor

RE: Williams Field Services-Gulf Coast Company, L.P.
Right-of-Use and Easement Application No. ~~22048~~ **22084**
Proposed Canyon Station Platform, Main Pass Block 261
OCS Federal Waters, Offshore, Alabama

Gentlemen:

By letter dated May 14, 2001, Williams Field Services-Gulf Coast Company, L.P. submitted the referenced Right-of-Use and Easement application covering the installation and operation of the Canyon Station platform in Lease OCS-G 13035, Main Pass Block 261, Offshore, Alabama.

The proposed platform will serve as host facility for Marathon's Mississippi Canyon Block 348 (Camden Hills Prospect), TotalFinaElf's Mississippi Canyon Block 305 (Aconcagua Prospect), and BP's Mississippi Canyon Block 271, and Desoto Canyon Blocks 177 and 133 (Kings Peak Prospect).

Per your request, enclosed is a letter from Devon SFS Operating, Inc. (Devon), designated operator for Main Pass Block 261, stating that Devon has no objection to the proposed platform installation. A letter of no objection from Vastar Resources, Inc., lessee of Main Pass Block 261, was previously submitted to you.

Very truly yours,

WILLIAMS FIELD SERVICES-GULF COAST COMPANY, L.P.

Alan S. Armstrong (WER)

Alan S. Armstrong
Vice President/Midstream Gas and Liquids
Asset Optimization

ASA:WER
Enclosure

devon
SFS OPERATING, INC.

1200 Smith Street, Suite 3300
Houston, Texas 77002

Telephone: (713) 286-5700
Facsimile: (713) 286-5787

CC: ^{KPR} MEL WOOD
DAN M VAY
TRAVIS JENKIN
O: CANYON STATION
PERM. FILE

January 10, 2001

Williams Energy Services
2800 Post Oak Blvd.
PO Box 1396
Houston, TX. 77251-1396

Attn: Mr. Kevin R. Rehm

Subject: Canyon Station Location

Dear Kevin:

We are in receipt of your letter dated December 8, 2000, (sent to our Oklahoma City offices) which describes your proposed location for a new platform located in Main Pass Block 261 to service the Canyon Express project.

Devon, as Main Pass 261 Operator, sees no significant operational impact to the ongoing Main Pass 261 operations as your location is in excess of one mile from our existing platform. However, as mentioned before, we would still continue to encourage your consideration of a location in closer proximity to the existing structure which could allow realizing capital and operational synergies by the industry and all parties.

I'd like to point out two apparent drafting errors, which you may want to look into, associated with the map/plat in your December letter.

- 1) Your plat legend illustrates five (5) "well tiebacks" originating from the existing MP 261 platform. These are actually directionally drilled wells, not "well tiebacks".
- 2) Your plat shows a "well tieback" approximately 100-200' south of your proposed location, originating from the existing platform and heading almost due southeast. This looks to me like a coordinate miss-tie. Our existing A-5 wellbore actually terminates at the point your "well tieback" path makes a sharp bend from due south to due south-east.

Sincerely,


Thomas P. Murphy
Deep Water/EGOM Manager

Cc: Mr. Steve Taylor, Samedan
Chris Claeys, Devon
Raymond Maggiore, Devon

SENT VIA REGISTERED MAIL



December 8, 2000

Energy Services
2800 Post Oak Boulevard
P.O. Box 1396
Houston, Texas 77251-1396
713/215-3000

Devon Energy Corporation (formerly SOCO)
1500 Mid-America Tower
20 North Broadway – Suite 1500
Oklahoma City, Oklahoma 73102-8260

Samedan Oil Corporation
350 Glenborough – Suite 240
Houston, Texas 77067

Attn: Mr. Tom Murphy

Attn: Mr. Steve Taylor

RE: Canyon Station Location

Gentlemen:

Williams Field Services - Gulf Coast Company, L.P. ("Williams") will be building a Production Handling Facility for the Canyon Express Pipeline to be located in East Main Pass 261 ("EMP 261"). Williams' facility has been dubbed "Canyon Station". Current plans call for the jacket to be set in July 2001, and the production deck to be set in June 2002. The location of Williams' Canyon Station is proposed to be approximately 1.25 miles southeast of your existing structure located in EMP 261, at the Louisiana Lambert Coordinates of X = 3,029,600, Y = 256,029. The attached diagram shows the relative locations of Canyon Station and the existing infrastructure in EMP 261.

The official Minerals Management Service ("MMS") filing for this facility detailing the pertinent pipeline connections will be filed with the MMS in January 2001; however, Williams is notifying Devon and Samedan in advance of the filing to insure that any of your locational concerns are addressed prior to the filing.

Please notify me at (713) 215-2694 at your earliest possible convenience to discuss any potential issues with Williams' plans.

Sincerely,

A handwritten signature in black ink, appearing to read "K. R. Rehm", with a long horizontal line extending to the right.

Kevin R. Rehm
Asset Manager
Williams Field Services Company

KRR/kjh

Attachment

Cc: Andy Anderson (Devon), Blaine Wofford (Devon), Dan Dinges (Samedan),
Dan McVay (WFS)

cc: McVay

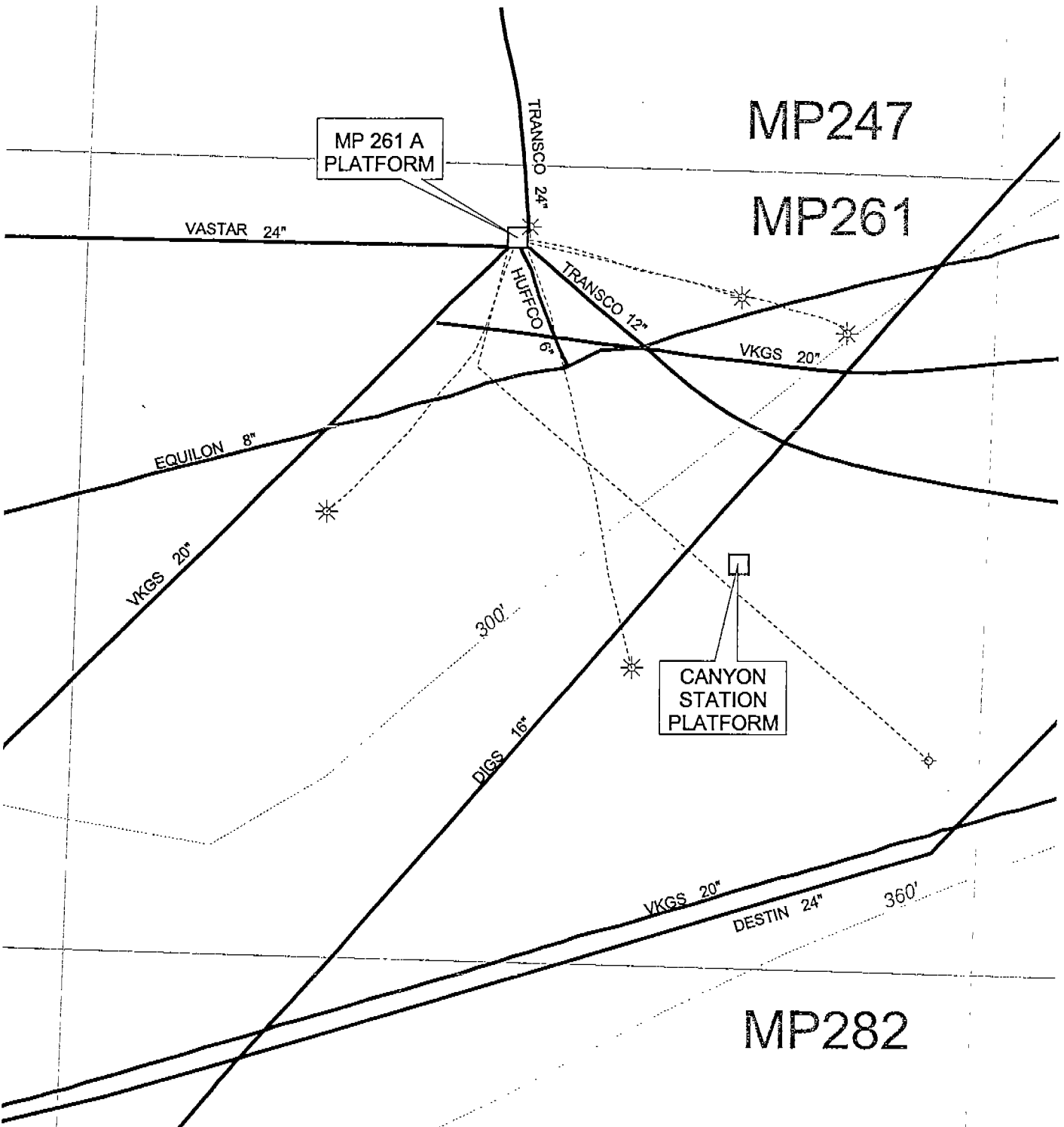
MP247

MP261

MP282

MP 261 A
PLATFORM

CANYON
STATION
PLATFORM

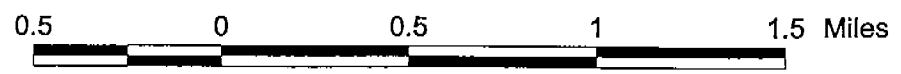


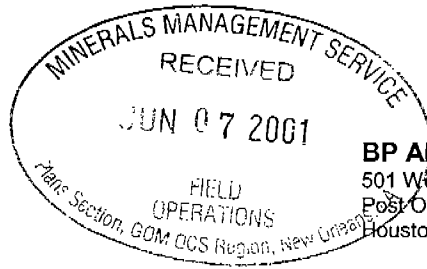
LEGEND

- Wells
- ◇ DRY
 - * GAS
- Pipelines
- ≡ COND
 - ≡ GAS
 - ≡ OIL
 - - - Well Tie Backs



MAIN PASS AREA
BLOCK 261, LOCATION OF
CANYON STATION PLATFORM
GULF COAST REGION





BP AMERICA INC
501 WestLake Park Boulevard
Post Office Box 3092
Houston, Texas 77253-3092

281-366-2000

Jun 1, 2001

Mr. Donald C. Howard
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Nick Wetzel
Plans Unit Supervisor

RE: Williams Field Services-Gulf Coast Company, L.P.
Right-of-Use and Easement Application No. ~~22048~~ **22084**
Proposed Canyon Station Platform, Main Pass Block 261
OCS Federal Waters, Offshore, Alabama

Gentlemen:

By letter dated May 14, 2001, Williams Field Services-Gulf Coast Company, L.P. submitted the referenced Right-of-Use and Easement application covering the installation and operation of the Canyon Station platform in Lease OCS-G 13035, Main Pass Block 261, Offshore, Alabama.

The proposed platform will serve as host facility for Marathon's Mississippi Canyon Block 348 (Camden Hills Prospect), TotalFinaElf's Mississippi Canyon Block 305 (Aconcagua Prospect), and BP's Mississippi Canyon Block 271, and Desoto Canyon Blocks 177 and 133 (Kings Peak Prospect).

This letter will serve as confirmation that Vastar Resources, Inc., as lessee of record for Lease OCS-G 13035, has no objection to the Right-of-Use and Easement and the proposed operations thereon.

Very truly yours,

VASTAR RESOURCES, INC.

T. V. Harty
Attorney-in-Fact

cc: Williams Field Services-Gulf Coast Company, L.P.
c/o Ms. Wanda E. Richmond, J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700, Houston, TX 77084



Williams Field Services
Gulf Coast Company, L.P.
P.O. Box 645
Tulsa, Oklahoma 74101-0645
1800 South Baltimore
Tulsa, Oklahoma 74119-5284
918/581-1800
918/560-9115 fax

May 29, 2001

Mr. Donald C. Howard
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Tom Meyers - MS 5440

RE: Right-of-Use and Easement Application No. 22048
Proposed Platform, Main Pass Block 261
OCS Federal Waters, Offshore, Alabama

Gentlemen:

Reference is to your May 17, 2001 telephone conference with representatives of Williams Field Services (Williams), Paragon Engineering, and Ms. Wanda Richmond, J. Connor Consulting, concerning the Air Quality Review and emissions calculations for the referenced application. Pursuant to that conversation, the following additional/revised information is enclosed:

- 1) Revised Air Quality Review showing no emissions from the atmospheric process vent;
- 2) A description of the Vapor Recovery Unit operations; and
- 3) An analysis of the production stream characteristics.

Should you have questions or require additional information, please contact our regulatory consultant, Ms. Wanda E. Richmond, at (281) 578-3388.

Very truly yours,

WILLIAMS FIELD SERVICES - GULF COAST COMPANY, L.P.

Alan S. Armstrong (WER)

Alan S. Armstrong
Vice President/Midstream Gas and Liquids
Asset Optimization

ASA:WER

Enclosures

cc: Nick Wetzel, MMS Plans Unit

DOCD AIR QUALITY SCREENING CHECKLIST

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	WILLIAMS FIELD SERVICES, GULF COAST COMPANY, LP
AREA	MAIN PASS
BLOCK	261
LEASE	OCS-G13035
PLATFORM	PIPELINE JUNCTION PLATFORM
WELL	N/A
COMPANY CONTACT	MEL WOOD
TELEPHONE NO.	713-670-8094 OR 713-215-3258
REMARKS	INSTALL AND OPERATE JUNCTION PLATFORM TO RECEIVE AND PROCESS PRODUCTION FROM CANYON EXPRESS PIPELINES.

	"Yes"	"No"	Air Quality Screening Questions
	X		1. Is the concentration of H ₂ S expected greater than 20 ppm?
	X		2. Is the burning of produced liquids proposed?
	X		3. Is gas flaring or venting which would require Regional Supervisor of Production and Development approval under Subpart K proposed?
	X		4. Does the facility process production from 8 or more active wells?
	X		5. Is the facility within 200km of the Breton Area?
	X		6. Will the proposed activity be collocated at (same surface location), or bridge attached to, a previously approved facility?
	X		7. Is the proposed activity within 25 miles of shore?
	X		8. Are semi-submersible activities involved and is the facility within 75 miles of shore?
	X		9. Are drillship operations involved and is the facility within 145 miles of shore?

If ALL questions are answered "No":
" " Fill in the information below about your lease term pipelines and submit only this coversheet with your plan.

If ANY question is answered "Yes":
Prepare and submit a full set of spreadsheets with your plan.

LEASE TERM PIPELINE CONSTRUCTION INFORMATION:		TOTAL NUMBER OF CONSTRUCTION DAYS
YEAR	NUMBER OF PIPELINES	
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

AIR EMISSION COMPUTATION FACTORS

OMB Control No. xxxx-xxxx
Expiration Date: Pending

Fuel Usage Conversion Factors	Natural Gas Turbines	Natural Gas Engines	Diesel Recip. Engine	REF.	DATE			
	SCF/hp-hr	SCF/hp-hr	GAL/hp-hr	AP42 3.2-1	4/76 & 8/84			
Equipment/Emission Factors	units	PM	SOX	NOX	VOC	CO	REF.	DATE
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-1 & 3.1-1	10/96
NG 2-cycle lean	gms/hp-hr		0.00185	10.9	0.43	1.5	AP42 3.2-1	10/96
NG 4-cycle lean	gms/hp-hr		0.00185	11.8	0.72	1.6	AP42 3.2-1	10/96
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-1	10/96
Diesel Recip. < 600 hp.	gms/hp-hr	1	1.468	14	1.12	3.03	AP42 3.3-1	10/96
Diesel Recip. > 600 hp.	gms/hp-hr	0.32	1.468	11	0.33	2.4	AP42 3.4-1	10/96
Diesel Boiler	lbs/bbl	0.084	2.42	0.84	0.008	0.21	AP42 1.3-12, 14	9/98
NG Heaters/Boilers/Burners	lbs/mmscf	7.6	0.593	100	5.5	84	AP42 1.4-1, 14-2, & 14	7/98
NG Flares	lbs/mmscf		0.593	71.4	60.3	388.5	AP42 11.5-1	9/91
Liquid Flaring	lbs/bbl	0.42	6.83	2	0.01	0.21	AP42 1.3-1 & 1.3-3	9/98
Tank Vapors	lbs/bbl				0.03		E&P Forum	1/93
Fugitives	lbs/hr/comp.				0.0005		API Study	12/93
Glycol Dehydrator Vent	lbs/mmscf				6.6		La. DEQ	1991
Gas Venting	lbs/scf				0.0034			

Sulfur Content Source	Value	Units
Fuel Gas	3.33	ppm
Diesel Fuel	0.4	% weight
Produced Gas (Flares)	3.33	ppm
Produced Oil (Liquid Flaring)	1	% weight

AIR EMISSION CALCULATIONS - FIRST YEAR

OMB Control No. xxx-xxxx
Expiration Date: Pending

COMPANY	WALWAS FIELD SERVICES	AREA	BLOCK	LEASE	PLATFORM	WELL	RUN TIME	CONTRACT									
								MEL WOOD	MAXIMUM POUNDS PER HOUR					PHONE	REMARKS	ESTIMATED TONS	
OPERATIONS	EQUIPMENT	HP	RATING	OCS-01/005	ACT. FUEL	HR/D	DAYS	PM	SOX	NOX	VOC	CO	PM	SOX	NOX	VOC	CO
DRILLING	PRIME MOVER-600hp diesel	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER-600hp diesel	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PRIME MOVER-600hp diesel	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	BURNER diesel	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	AUXILIARY EQUIP-600hp diesel	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSLS-600hp diesel(crew)	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSLS-600hp diesel(supply)	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSLS-600hp diesel(kugs)	0	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE LAY BARGE diesel	0	0	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE BURY BARGE diesel	0	0	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE BURY BARGE diesel	0	0	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
VESSLS-600hp diesel(crew)	0	0	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
VESSLS-600hp diesel(supply)	0	0	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PIPELINE INSTALLATION	DERRICK BARGE diesel(JACKET)	26066	1210.6395	29085.95	24	7	17.67	81.05	607.90	18.22	132.50	1.48	6.81	51.01	1.53	11.13	
INSTALLATION	DI TUG diesel(JACKET)	10000	483	11082.00	24	7	7.05	32.33	242.29	7.27	62.86	0.68	2.72	20.35	0.61	4.44	
	MATERIAL TUG diesel(JACKET)	3000	144.8	3477.60	24	3	2.11	9.70	72.69	2.18	16.86	0.08	0.35	2.62	0.06	0.67	
	MATERIAL TUG diesel(FILES)	3000	144.8	3477.60	24	7	2.11	9.70	72.69	2.18	16.86	0.18	0.81	6.11	0.18	1.33	
	VESSLS-600hp diesel(crew)	2065	99.7395	2383.75	8	7	1.46	6.68	50.03	1.50	10.92	0.04	0.19	1.40	0.04	0.51	
	VESSLS-600hp diesel(supply)	2065	99.7395	2383.75	10	2	1.46	6.68	50.03	1.50	10.92	0.01	0.07	0.50	0.02	0.11	
	RECIP-600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	TURBINE nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIP-2 cycle lean nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIP-4 cycle lean nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
RECIP-4 cycle rich nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
RECIP-4 cycle rich nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
MISC.	TANK	0	0.00	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FLARE	PROCESS VENT	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
FUGITIVES	GLYCOL STILL VENT	0	0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OIL BURN	GAS FLARE	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
WELL TEST	GAS FLARE	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2001 YEAR TOTAL							31.85	146.14	1095.03	32.85	238.92	2.39	10.94	81.99	2.46	17.89	
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES		75.0									2497.50	2497.50	2497.50	2497.50	60467.18	

AIR EMISSIONS CALCULATIONS - FOURTH YEAR

OMB Control No. xxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL	CONTRACT	PHONE	REMARKS	ESTIMATED TONS											
WILLIAMS FIELD SERVICE OPERATIONS	EQUIPMENT Diesel Engines Nat. Gas Engines	RATING HP	GOS-GTUNES MAX. FUEL GAL/HR	FUNCTIONAL ACT. FUEL GAL/D	RUN TIME HR/D	DAYS	PM SOX	NOX	VOC	CO	MAXIMUM POUNDS PER HOUR									
											PM	SOX	NOX	VOC	CO	PM	SOX	NOX	VOC	CO
PIPELINE INSTALLATION	PIPELINE LAY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE BURY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS->600hp diesel(crew)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS->800hp diesel(supply)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE LAY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE BURY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS->600hp diesel(crew)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS->800hp diesel(supply)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PIPELINE INSTALLATION	DERRICK BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	INSTALLATION	MATERIAL TUG diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSTALLATION	VESSELS->600hp diesel(crew)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
INSTALLATION	VESSELS->800hp diesel(supply)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PRODUCTION	RECIPI->800hp diesel(REWATER PUMP)	330	18,938	382.54	4	365	0.73	1.07	10.18	0.81	2.20	0.83	0.78	7.43	0.88	0.69	0.00	0.00	0.00	
	RECIPI->800hp diesel(CRANE)	185	8,335	214.46	4	365	0.41	0.60	8.70	0.46	1.23	0.30	0.14	4.18	0.33	0.00	0.00	0.00	0.00	
	RECIPI->800hp diesel(OEN)	1675	90,025	1941.65	24	365	1.18	5.42	40.68	1.22	8.85	0.37	1.99	12.66	0.38	0.00	0.00	0.00	0.00	
	SUPPORT VESSEL diesel(SUPPLY)	2065	98,739	2393.75	10	52	1.46	8.88	50.03	1.50	10.82	0.38	1.74	13.01	0.39	0.00	0.00	0.00	0.00	
	TURBINE FIGHTER/BOOSTER COMP #1)	8500	61906	1485744.00	24	365	0.04	0.04	18.61	0.14	11.88	0.15	0.15	81.52	0.63	0.00	0.00	0.00	0.00	
	TURBINE HIGHER BOOSTER COMP #2)	6500	61906	1485744.00	24	365	0.04	0.04	18.61	0.14	11.88	0.15	0.15	81.52	0.63	0.00	0.00	0.00	0.00	
	RECIPI-2 cycle lean nat gas	0	0	0	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIPI-4 cycle lean nat gas	325	2321.475	55715.40	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIPI-4 cycle lean nat gas	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIPI-4 cycle lean nat gas	1675	11964.525	287148.60	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIPI-4 cycle lean nat gas	1675	11964.525	287148.60	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	RECIPI-4 cycle lean nat gas	41.3	11964.525	287148.60	24	365	0.01	0.01	38.89	0.52	31.73	0.03	0.03	161.60	2.28	0.00	0.00	0.00	0.00	
	RECIPI-4 cycle lean nat gas	41.3	39333.33	944000.00	24	365	0.01	0.02	39.89	0.52	31.73	0.03	0.10	17.23	2.28	0.00	0.00	0.00	0.00	
	TANK	FLARE (HI PRESSURE FLARE)	0	50	0	0	0	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TANK	FLARE (LO PRESSURE FLARE)	0	50	0	24	5	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TANK	FLARE (ATMOSPHERIC FLARE)	0	50	0	24	5	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TANK	PROCESS VENT. (ATMOSPHERIC)	0	0	0	0	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TANK	GLYCOL STILL VENT-	0	0	153.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
WELL TEST	OIL BURN	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
WELL TEST	GAS FLARE	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2004 YEAR TOTAL							4.07	13.87	228.90	6.83	114.94	2.88	5.12	44.88	149.65	2497.50	2497.50	2497.50	80467.19	
EXEMPTION CALCULATION																				

AIR EMISSIONS CALCULATIONS - FIFTH YEAR

OMB Control No. XXX-XXX
Expiration Date: Pending

COMPANY	WILLIAMS FIELD SERVICE	AREA	BLOCK	281	OCG-01035	E	JUNCTION	WELL	CONTACT		PHONE	REMARKS											
									WEL WOOD	MAXIMUM POUNDS PER HOUR													
OPERATIONS	EQUIPMENT	Diesel Engines	RATING	HP	MAX FUEL	ACT FUEL	GAL/HR	GAL/D	RUN TIME	PM	SOX	NOX	VOC	CO	ESTIMATED TONS								
															PM	SOX	NOX	VOC	CO				
DRILLING	PRIME MOVER-800hp diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	PRIME MOVER-800hp diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	PRIME MOVER-800hp diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	BURNER diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	AUXILIARY EQUIP-600hp diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(crew)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(supply)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(lugs)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
PIPELINE	PIPELINE LAY BARGE diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
INSTALLATION	SUPPORT VESSEL diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	PIPELINE BURT BARGE diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	SUPPORT VESSEL diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(crew)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(supply)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
FACILITY	DERRICK BARGE diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
INSTALLATION	MATERIAL TUG diesel	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(crew)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	VESSEL-S-800hp diesel(supply)	0	0	0	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
PRODUCTION	RECIP-800hp diesel(FIREWATER PUMP)	330	15,939	362.54	4	365	0.73	1.07	10.18	0.81	2.20	0.53	0.76	7.43	0.59	1.61	1.81	1.81					
	RECIP-800hp diesel(CRANE)	185	8,935	214.45	4	365	0.41	0.60	5.70	0.48	1.23	0.30	0.44	4.16	0.33	0.90	0.90	0.90					
	SUPPORT VESSEL diesel(GEN)	1875	80,902	2,393.75	24	26	1.18	5.42	40.58	1.22	8.65	0.37	0.51	12.86	0.38	2.75	2.75	2.75					
	TURBINE DIESEL COMP #1)	2065	89,739	2,603.75	10	52	1.46	6.08	59.03	1.50	10.92	0.39	1.74	13.01	0.39	2.84	2.84	2.84					
	TURBINE DIESEL COMP #2)	6500	61,908	1,857,44.00	24	365	0.04	0.04	18.81	0.14	11.08	0.15	0.15	81.52	0.63	52.05	52.05	52.05					
	TURBINE DIESEL COMP #2)	6500	61,908	1,857,44.00	24	365	0.00	0.00	18.81	0.00	11.08	0.15	0.15	81.52	0.63	52.05	52.05	52.05					
	RECIP 2 cycle lean nat gas	0	0	0.00	0	0	0.00	0.00	8.45	0.52	1.15	0.01	0.01	37.00	0.00	0.00	0.00	0.00					
	RECIP 4 cycle lean nat gas	325	2321,475	55,715.40	24	365	0.00	0.00	8.45	0.00	1.15	0.01	0.01	37.00	0.00	0.00	0.00	0.00					
	RECIP 4 cycle lean nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	RECIP 4 cycle lean nat gas	1875	11984,525	287,148.80	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	RECIP 4 cycle rich nat gas(GENERATOR #1)	1675	11984,525	287,148.80	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	RECIP 4 cycle rich nat gas(GENERATOR #2)	1675	11984,525	287,148.80	24	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	RECIP 4 cycle rich nat gas(GENERATOR #2)	41.3	393,333.33	94,000.00	24	365	0.30	0.02	3.93	0.22	3.30	1.31	0.10	17.23	0.85	13.97	13.97	13.97					
	TANK	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	FLARE (H PRESSURE FLARE)	50	50	0.00	24	5	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	FLARE (LO PRESSURE FLARE)	50	50	0.00	24	5	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	FLARE (ATMOSPHERIC)	50	50	0.00	24	5	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	PROCESS VENT (ATMOSPHERIC)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	FUGITIVES	1533.0	1533.0	0.00	0	365	0.78	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	OIL STILL VENT-	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	GAS FLARE	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	GAS FLARE	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
DRILLING	OIL BURN	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
WELL TEST	GAS FLARE	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
2005 YEAR TOTAL													4.07	13.87	228.90	6.53	114.94	2.88	5.12	141.87	14.08	119.16	60467.18
EXEMPTION CALCULATION													75.0										

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx
 Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
WILLIAMS FIELD	MAIN PASS	261	OCS-G13035	PIPELINE JUNCTION PL	N/A
Emitted Substance					
Year	PM	SOX	NOX	VOG	CO
2001	2.39	10.94	81.99	2.46	17.89
2002	2.76	7.71	387.31 171.48	9.63	257.77 125.52
2003	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2004	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2005	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2006	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2007	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2008	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2009	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2010	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2011	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2012	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2013	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2014	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2015	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2016	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2017	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2018	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2019	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2020	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2021	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2022	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2023	2.88	5.12	577.73 141.87	14.08	409.65 119.16

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx
 Expiration Date: Pending

2024	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2025	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2026	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2027	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2028	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2029	2.88	5.12	577.73 141.87	14.08	409.65 119.16
2030	2.88	5.12	577.73 141.87	14.08	409.65 119.16
Allowable	2497.50	2497.50	2497.50	2497.50	60467.19

**WILLIAMS ENERGY SERVICES
MAIN PASS BLOCK 261 "JP"
CANYON STATION**

Vapor Recovery Unit

The VRU will be an electrically driven compressor. The process input points to the VRU will be as follows:

- a) Glycol Hydrocarbon Separator
- b) Dry Oil Tank
- c) Slop oil Tank
- d) Oil Treater
- e) Vapor Outlet B-Tex Condensor on Outlet of Glycol Reboiler Still Column

The VRU will compress the low pressure gas from the above listed equipment to approximately 130 psi. This 130 psi gas will then be routed to the suction of the flash gas compressor. The VRU will be a rotary screw type.

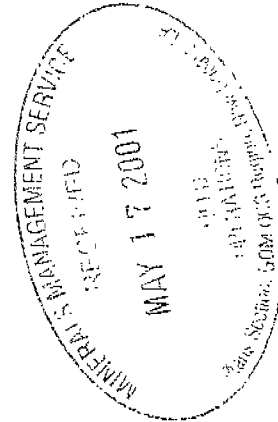
EXHIBIT L
DESIGN PRODUCTION STREAM CHARACTERISTICS

Component	Low	Design	High
	mol%	Basis mol%	mol%
H2S	0.000	0.000	0.000
N2	0.057	0.162	0.450
CO2	0.047	0.103	0.200
C1	98.960	99.178	99.540
C2	0.190	0.275	0.294
C3	0.031	0.044	0.109
iC4	0.011	0.017	0.027
nC4	0.004	0.014	0.046
iC5	0.005	0.009	0.055
nC5	0.000	0.007	0.022
NBP232		0.102	
NBP392		0.028	
NBP541		0.039	
NBP693		0.019	
NBP866		0.003	
Total		100.000	
Specific Gravity	0.557	0.563	0.565

**Williams Energy Services
Canyon Station Platform**

NOX and CO emmissions for Williams Canyon Station Platform

Equipment	Tons/year	
	NOx	CO
Booster Compressor No 1	16.6	33.1
Booster Compressor No 2	16.6	33.1
Flash Gas Compressor	3.4	6.7
Generator Set No. 1	12.1	28.8
Generator Set No. 2	12.1	28.8
Heat Medium Heater	9	6
Emergency Generator	64.8	23.4
Platform Crane	1.5	0.1
Flare Pilots	0.04	0.2
Firewater Pump	1.86	0.16
Total	138	160



FR: BOOSTER COMPRESSOR PURCHASE ORDER

1. The limit for unfiltered overall peak-to-peak vibration adjacent to each bearing shall not exceed $(12000/N)^{1/2}$ or 1.0 mil (1.2 mil for C30 and C50J models), whichever is greater, throughout the operating speed range. The maximum continuous speed (100% Gas Speed), N, shall be as stamped on the compressor nameplate.
2. The vibration amplitude of any discrete frequency, except running speed, shall not exceed 20% of the value established in 1. above."

15J FACTORY EMISSIONS TESTING

15J1 Factory Emissions Testing per Solar ES 9-97

In addition to the testing described above, the unit will be tested for exhaust emissions of NOx, CO and UHC in accordance with Solar Specification ES 9-97.

Williams CF#18; Emissions Guarantee

Emissions levels are guaranteed as follows: 25 ppmv NOx, 50 ppmv Co and 25 ppmv UHC at a 50 to 100% load range above 0 degrees F.

15M CUSTOMER PARTICIPATION - OBSERVE

15M1 Observe on Noninterference Basis

The purchaser is provided access to Solar's Production Test Facilities to observe factory production tests scheduled in accordance with production and testing schedules. Unavailability of the purchaser or purchaser's representative shall not be cause for delay in the performance of the production tests.

15P WELD RADIOGRAPHY, PIPING AND MANIFOLDS

15P3 Pneumatic Start System, 100% of Welds

Radiographic inspection is performed in accordance with ASME Section V. One hundred (100) percent of the Pneumatic Start System piping and manifold circumferential butt welds are inspected by radiographic examination in accordance with ANSI/ASME B31.3.

15P6 Gas Fuel System, 100% of Welds

Radiographic inspection is performed in accordance with ASME Section V. One hundred (100) percent of the Gas Fuel System piping and manifold circumferential butt welds are inspected by radiographic examination in accordance with ANSI/ASME B31.3.

Williams CF#67: Hydrotest Manifolds

Fuel manifolds and start gas manifolds 3 inches and larger, excluding atmospheric vents and drains, are to be hydrotested for one hour in lieu of Solar standard 10 minutes.

15P7 Lube Oil System, Single Body Compressor, 5% of Welds

Radiographic inspection of the Lube Oil System piping and manifolds is performed in accordance with ASME Section V. Five (5) percent of each welder's work (circumferential butt weld only) is inspected by radiographic examination in accordance with ANSI/ASME B31.3. The specific manifolds on a given unit may or may not be part of the 5% of each welder's work which is examined.

TAURUS 60-T7300S
 CS/MD
 59F MATCH
 GAS
 TTD-2S REV. 0.1
 ES-2098

DATA FOR MINIMUM PERFORMANCE

Fuel Type CHOICE NATURAL GAS

Elevation Feet 75
 Inlet Loss in. H2O 3.0
 Exhaust Loss in. H2O 3.0
 Accessory on GP Shaft Hp 25.0

Engine Inlet Temp. Deg. F 95.0
 Relative Humidity % 60.0
 Elevation Loss Hp 16
 Inlet Loss Hp 81
 Exhaust Loss Hp 36

Driven Equipment Speed RPM 12651
 Optimum Equipment Speed RPM 12651
 Gas Generator Speed RPM 14758

Specified Load Hp FULL
 Net Output Power Hp 5767 ✓
 Fuel Flow MMBtu/hr 50.62 ✓
 Heat Rate Btu/Hp-hr 8779 ✓

Inlet Air Flow lbm/hr 149172
 Engine Exhaust Flow lbm/hr 151228
 PCD psi(g) 142.2
 PT Inlet Temp. (T5) Deg. F 1316
 Compensated PTT Deg. F 1400
 Exhaust Temperature Deg. F 955

FUEL GAS COMPOSITION (VOLUME PERCENT)

LHV (Btu/SCF) = 913.3 SG = 0.5600 W.I. @60F = 1220.6

A = 0.0000 CH4 = 99.2890 C2H4 = 0.0000 C2H6 = 0.2704
 C3H6 = 0.0000 C3H8 = 0.0401 C4 = 0.0300 C5 = 0.0200
 C6 = 0.0801 C7 = 0.0000 C8 = 0.0000 CO = 0.0000
 CO2 = 0.1001 H2 = 0.0000 H2O = 0.0100 H2S = 0.0000
 N2 = 0.1602 O2 = 0.0000 SO2 = 0.0001 He = 0.0000

ENGINE GENERATOR SET

GAS UNIT – MAIN DRIVERS

Bidder	Engine Make/Model	(A)	(B)	(C)	(100% Load 24 Hr/Day, 365 Days/Year)		
		Rich Burn \$ (Base)	Lean Burn \$ (Adder)	Catalytic Conv. \$ (Adder)	NOX Tons/Yr.	B	C
IEW	Waukeshesha L7042GSI	\$499,500 Ea.	\$12,000 Ea.	\$17,900 Ea.	121.31	21.41	12.12
Reagan	Waukeshesha L7042GSI	\$525,343 Ea.	0	\$9,420 Ea.	121.31	21.41	12.12
					CO Tons/Yr.	?	28.84

DIESEL UNIT - EMERGENCY / STANDBY

Bidder	Engine Make/Model	(A)	(B)	(Maint. Cost)	(50% Load @122 Days/Year)	
		Standard Cost \$ (Base)	DITA Converter Lean Burn w/UREA SCR \$ (Adder)	200 Gal. UREA Day Tank \$/Gal.	NOX Tons/Yr.	B
IEW	Caterpillar 3516DITA	\$509,175	\$108,710	\$52,704.00/Yr.	64.8	6.5
Reagan	Caterpillar 3516DITA	\$567,931	\$110,000	\$52,704.00/Yr.	64.8	6.5
					CO Tons/Yr.	2.34

* = Estimated gallons/day based on 33% per year run time. 33% x 365 = 122 days/year or 2920 hours/year.

UREA Cost \$2.00/Gal. Appx. Usage is 9 gal./hour x 24 hours = 216 gallons/day
 122 days x 216 gal./day = 26,352 gal/year x \$2.00/gallon = \$52,704

Matt Barcelona
Titan

1. Waukeshesha L7042GSI – RICH BURM without catalytic converter.
 Operating 8760 hr/yr. @ 8.5 grams/bhp-hr of NOX = 121.31 tons/yr.
 Operating 5839 hr/yr. @ 8.5 grams/bhp-hr of NOX = 80.79 tons/yr.
2. Waukeshesha L7042GSI – RICH BURM with catalytic converter. 90% reduction in NOX.
 Operating 8760 hr/yr. @ 8.5 grams/bhp-hr of NOX = 12.12 tons/yr.
 Operating 5839 hr/yr. @ 8.5 grams/bhp-hr of NOX = 80.79 tons/yr.
3. Waukeshesha L7042GSI – LEAN BURM engine without catalytic converter.
 Operating 8760 hr/yr @ 1.5 grams/bhp-hr of NOX = 21.41 tons/yr.

4430 BRITTMOORE ROAD
HOUSTON, TEXAS 77041 USA
TELEPHONE: (713) 335-7517
FAX: (713) 466-7123



FAX

THIS FAX IS INTENDED ONLY FOR THE USE OF THE PERSON TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS CONFIDENTIAL. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT YOU MUST NOT READ OR COPY THIS COMMUNICATION. IF YOU HAVE RECEIVED THIS FAX IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND MAIL THE ORIGINAL FAX TO US AT THE ADDRESS ABOVE. THANK YOU.

DATE: April 6, 2001	FROM: Sam Edwards
TO: Paragon Engineering Services	UCI Proposal: 01-8261E
ATTENTION: Rob Spencer	UCI FAX Ref.:
FAX No.: (713) 570-1000	TOTAL No. OF PAGES: 2
FAX No.: (713) 570-8903	E-MAIL: sedwards@universalcompression.com
Paragon RFQ-A0177-EF-002 Flash Gas Compressor - Williams Field Services - Canyon Station Project	

Rob,

Based on the maximum rated engine horsepower of 231 @ 1800 rpm the emissions are expected to be as follows:

	<u>Tons per year w/o converter</u>	<u>Tons per year with converter</u>
NOx	33.46	3.35-
CO	33.46	6.69 ✓
NMHC	.67	.33

The above rates are based on having the engine adjusted for equal NOx & CO. A copy of Waukesha's sheet on emissions from this engine is attached. If we can provide additional information on our offer for your client, please ask. We would welcome an opportunity to supply this unit for your needs.

Regards,

Sam Edwards
Sales Representative
Engineered Products Group

Attn: Michael Swanson

Eclipse Combustion
A DIVISION OF ECLIPSE, INC.

HEATER



1665 Elmwood Road
Rockford, Illinois 61103
Phone: 815-877-3031
Fax: 815-877-3443

EMISSIONS DATA REQUEST

(Please submit completed report to the appropriate Eclipse Product Mgr.)

CUSTOMER Heatec

APPLICATION _____

BURNER Vortometric, 16V-MI-G

FUEL Natural gas

PROCESS TEMPERATURE 1800 F

COMBUSTION AIR TEMPERATURE ENTERING BURNER Ambient

IF RECIRCULATING OVEN, PROCESS STREAM TEMPERATURE AHEAD OF BURNER _____

BURNER LOCATION _____

BURNER FIRING RATE 41.3 MM Btu/hr

WHAT EMISSIONS DO YOU NEED DATA FOR?
 NO_x CO _____ Other-specify _____

PERMIT CONDITIONS UNDER WHICH THE EQUIPMENT OPERATES

HOW SHOULD EMISSIONS BE STATED?
 PPM (parts per million) corrected to 3% O₂ _____ LB/MM BTU
 _____ LB/HOUR _____ Other-specify _____

IS THIS AN?
 ESTIMATE
 _____ GUARANTEE OF PERFORMANCE

REQUESTED BY: Charlie Vaughn

OFFICE: ECI - Chattanooga

DATE: 4/11/2001

EMISSIONS DATA (To be filled out by Eclipse Home Office)

NO_x: 75 ppm @ 3% O₂ dry

CO: 50 ppm @ 3% O₂ dry

Other: _____

All numbers are corrected to basis of 3% Oxygen dry.

Emissions are: Estimated based on information submitted above.
 Guaranteed

By: Pat Moran

Date: 4/11/2001

*For guarantees, see attached "Eclipse Combustion Emissions Guarantee" for terms.

PLATFORM CRANE



CUMMINS ENGINE COMPANY, INC
Columbus, Indiana 47202-3005

Engine Performance Curve

Basic Engine Model:

6BTA5.9-C200

Curve Number:

FR-90001

Industrial
Pg. No.
**6BTA5.9
175**

Engine Family:

D40

CPL Code:

1889

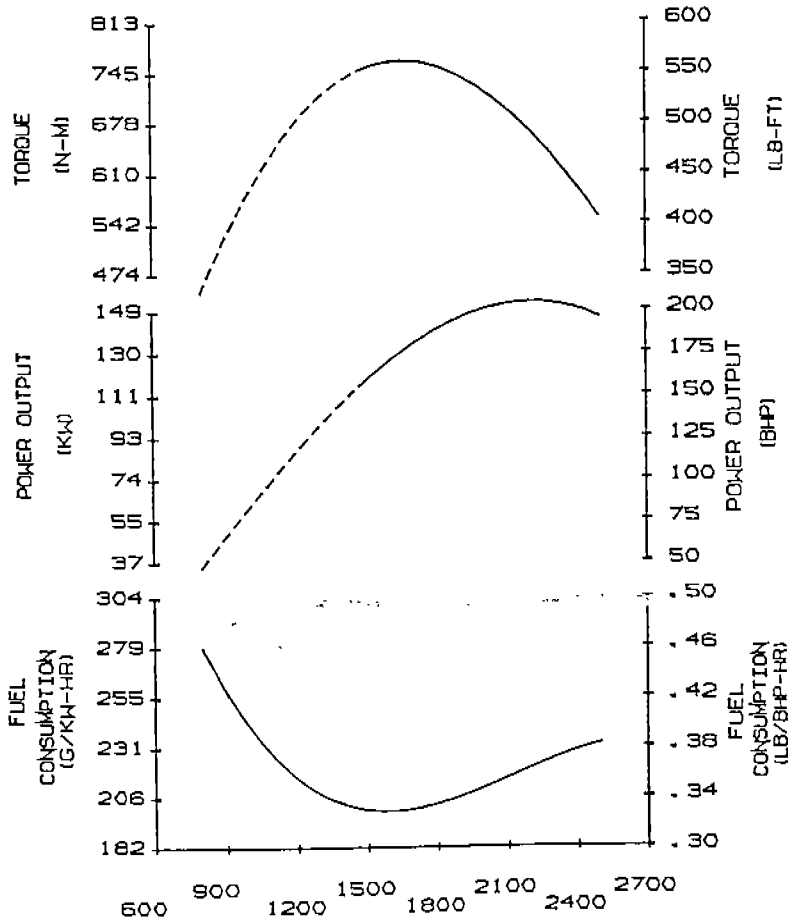
Date:

21Sep99

Displacement:	5.88 Litre (359.0 in.³)	Aspiration:	Turbocharged & JWAC	
Bore:	102 mm (4.02 in.)	Rating Type:	Intermittent	kW (BHP) @ RPM
Stroke:	120 mm (4.72 in.)	No. of Cylinders:	6	149 (200) 2500
Emission Control:	NONE	Fuel System:	Bosch P3000/RSV	8% Governor Regulation

All data are based on the engine operating with fuel system, water pump, lubricating oil pump, and 250 mm H₂O (10 in. H₂O) inlet air restriction and with 50 mm Hg (2.0 in. Hg) exhaust restriction; not included are alternator, fan, optional equipment and driven components.

INTERMITTENT RATING



TORQUE		
RPM	N·m	lb.-ft.
800	499	(368)
1100	549	(405)
1300	761	(561)
1500	814	(600)
1700	774	(571)
1900	723	(533)
2100	667	(492)
2300	617	(455)
2500	570	(420)

POWER OUTPUT		
RPM	kW	BHP
800	42	(56)
1100	63	(85)
1300	104	(139)
1500	128	(171)
1700	138	(185)
1900	144	(193)
2100	147	(197)
2300	148	(199)
2500	149	(200)

FUEL CONSUMPTION		
RPM	g/kW·hr	lb/BHP-HR
800	285	(.468)
1100	224	(.369)
1300	212	(.348)
1500	204	(.335)
1700	203	(.334)
1900	207	(.341)
2100	214	(.352)
2300	223	(.366)
2500	235	(.387)

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 100 kPa (29.61 in. Hg) barometric pressure [91 m (300 ft.) altitude], 25°C (77°F) inlet air temperature, and 1 kPa (0.30 in. Hg) water vapor pressure with No.2 diesel fuel. The engine may be operated without changing the fuel setting up to 3048 m (10,000 ft.) altitude. For sustained operation at high altitudes, the fuel rate of the engine will be adjusted to limit performance by 4% per 305 m (1,000 ft.) above 2255 m (7,400 ft.) altitude and 2% per 11°C above 38°C (1% per 10°F above 100°F).

Chris Wilkins

PERFORMANCE DATA

Low Idle Set Speed	—rpm	950
Minimum Low Idle Speed	—rpm	800
Maximum Governed Speed		
—@ 15 psi Check Point for PT Fuel System	—rpm	N/A
—@ 10% of Rated Torque for Pump-Line-Nozzle Fuel System	—rpm (1)	2781
Maximum Overspeed Capability	—rpm	3750
Closed Throttle Torque @ 800 rpm (for 950 RPM Low Idle Speed).....	—N·m (lb.-ft.)	TBD
Throttle Angle		
—High Idle	—Deg.	109±10
—Low Idle	—Deg.	84±10
—Delta	—Deg.	25±6

Maximum Power Available from the Front of the Crankshaft - Consult Cummins Application Engineer for Information

EMISSIONS:

Estimated Free Field Sound Pressure Level At 15 m (50 ft.) and Full-Load Governed Speed
(Excludes Noise from Intake, Exhaust, Cooling System and Driven Components)

—Right Side	—dBa	N.A.
—Left Side.....	—dBa	N.A.
—Front	—dBa	N.A.
—Rear.....	—dBa	N.A.

Gaseous Emissions per ISO 8178:

—Weight-Specific NOx.....	—g/bhp-hr. (2)	6.31
—Weight-Specific HC.....	—g/bhp-hr. (2)	0.31
—Weight-Specific CO	—g/bhp-hr. (2)	0.45
—Weight-Specific Particulates	—g/bhp-hr. (2)	0.13

Fuel Rating Option used for these Data: FR-90001

	INTERMITTENT	
	RATED	MAXIMUM POWER POINT
		PEAK TORQUE
Engine Speed	2500	1500
Gross Power Output.....	149 (200)	128 (171)
Torque	570 (420)	814 (600)
Intake Manifold Pressure.....	1320 (52)	940 (37)
Motoring Friction Horsepower	28 (37)	9 (12)
(3) Turbocharger Compressor Outlet Pressure ...	N/A	N/A
Intake Air Flow	240 (509)	126 (268)
(3) Intake Air Flow	N/A	N/A
Exhaust Gas Flow	609 (1292)	356 (755)
(3) Turbocharger Compressor Outlet Temperature	N/A	N/A
Exhaust Gas Temperature - Dry Stack.....	520 (968)	550 (1022)
Heat Rejection to Ambient (Dry Manifold)	20.9 (1190)	12.0 (680)
(4) Heat Rejection to Coolant (Dry Manifold)	101.2 (5756)	68.4 (3888)
Heat Rejection to Fuel.....	0.8 (45)	0.3 (15)
(4) Engine Coolant Flow	3.4 (54)	2.0 (32)
External Cooling Circuit Resistance @ 2500 rpm	20.7 (3)	20.7 (3)
Altitude Limitations:		
—Intermittent.....	3048 (10,000)	3048 (10,000)
—Continuous	2255 (7400)	2255 (7400)
Steady State Smoke	1.1	1.1

All performance data are based on: the engine operating with fuel system, water pump, lubricating oil pump, air cleaner, and muffler; not included are alternator, compressor, fan, optional equipment and driven components. Data represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 100 kPa (29.61 in. Hg) barometric pressure [91 m (300 ft.) altitude], 25°C (77°F) inlet air temperature, and 1 kPa (0.30 in. Hg) water vapor pressure with No. 2 diesel fuel or a fuel corresponding to ASTM D2.

- (1) Speed Calculated from Governor Break RPM and Percent Governor Regulation.
- (2) This rating is certified to applicable Tier 1 EPA and CARB emission requirements for nonroad engines. The actual certification engine for this family may have been of a different rating. Data provided is based upon the test procedures included in 40CFR89 and is believed to be representative of typical engines of this particular rating; however, this data may have been derived from potentially limited testing or from interpolation/extrapolation of test data from similar ratings using good engineering judgement. This data is subject to instrumentation, measurement, and engine-to-engine variability.
- (3) Data Required for Charge Air Aftercooler Circuit.
- (4) Coolant Flow and Heat Rejection Data Based on a Coolant Mixture of 50% Water and 50% Ethylene Glycol.
- (5) Note For Naturally Aspirated Engines: When operating naturally aspirated engines above SAE J1995 conditions, it should be noted that smoke levels will increase due to combustion inefficiencies associated with a reduction in the air to fuel mixture.

TBD = To Be Decided

N/A = Not Applicable

N.A. = Not Available

All data is subject to change without notice, bold data indicates a revision since the last update.

Cummins Engine Company, Inc.

Base Engine Data Sheet

Industrial
Pg. No.
6BTA5.9
21

ENGINE MODEL: 6BTA5.9-C	INSTALLATION DRAWINGS:	DATA SHEET: DS-D403057
CONFIGURATION NUMBER: D403057CX02	FAN to FLYWHEEL: 3626398	DATE: 25May00
AFTER COOLING SYSTEM: Jacket Water	WIRING DIAGRAM: N/A	RESTRICTED PRODUCT.
FUEL SYSTEM: Bosch P3000	CPL NUMBER: See Perf. Curve	If yes, documented approval required per AEB 26.01
	CERTIFICATION: See Perf. Curve	
	PRODUCT INFORMATION: AEB 10.48	

GENERAL ENGINE DATA

Engine Wet Weight (Pricing Configuration)	—kg. (lb.)	453 (997)
Moment of Inertia of Rotating Components (Excluding Flywheel).....	— kg•m ² (in.-lb.-sec. ²)	0.25 (2.2)
Center of Gravity from Front Face of Block.....	— mm (in.)	391 (15.4)
Center of Gravity above Crankshaft Centerline.....	— mm (in.)	140 (5.5)
Crankshaft Thrust Bearing Load Limit		
—Maximum Intermittent.....	— N (lb.)	3425 (770)
—Maximum Continuous	— N (lb.)	1112 (250)

ENGINE MOUNTING

Maximum (Static) Bending Moment at Front Support Mounting Surface	— N•m (lb.-ft.)	435 (321)
Maximum (Static) Bending Moment at Side Pad Mounting Surface.....	— N•m (lb.-ft.)	Ref. 3382769
Maximum (Static) Bending Moment at Rear Face of Block.....	— N•m (lb.-ft.)	1356 (1000)
Moment of Inertia of Complete Engine		
— Roll Axis.....	— kg•m ² (in.-lb.-sec. ²)	16.5 (146)
— Pitch Axis.....	— kg•m ² (in.-lb.-sec. ²)	41.1 (364)
— Yaw Axis.....	— kg•m ² (in.-lb.-sec. ²)	35.4 (313)

EXHAUST SYSTEM

Maximum Back Pressure.....	— mm Hg (in. Hg)	76 (3.0)
Exhaust Pipe Size Normally Acceptable	— mm (in.)	75 (3)
Maximum Static Supported Weight at the Turbocharger Outlet Flange	—N•m (lb.-ft.)	13.5 (10)
Exhaust Manifold Insulation Acceptable.....	—Yes/No	No
Turbocharger Insulation Acceptable.....	—Yes/No	No

AIR INTAKE SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner		
— Clean Element	— mm H ₂ O (in. H ₂ O)	381 (15)
— Dirty Element.....	— mm H ₂ O (in. H ₂ O)	635 (25)
Minimum Dirt Holding Capacity with Heavy Duty Air Cleaner	— g/litre/sec. (g/cfm)	53 (25)
Maximum Temperature Rise from Ambient to the Inlet of the Turbocharger	—°C (°F)	17 (30)
⁽¹⁾ Maximum Pressure Drop from the Turbocharger Outlet to the Intake Manifold.....	— mm Hg (in. Hg)	TBD TBD

NOTE: Conditions refer to rated power and speed unless otherwise noted.

TBD - To Be Determined

N/A - Not Applicable

N.A. - Not Available

⁽¹⁾ Data Required for Charge Air Aftercooler Circuit

⁽²⁾ Data Required for Low Temperature Aftercooler Circuit

DS-D403057

22
COOLING SYSTEM

Coolant Capacity - Engine Only	—litre (U.S. gal.)	10.4	(2.8)
Maximum Engine Cooling Circuit External Resistance	—kPa (psi)	TBD	
Minimum Pump Inlet Pressure with Open Thermostat and no Pressure Cap	— mm Hg (in. Hg)	See AEB 90.24	
Maximum Static Head of Coolant Above Engine Crankshaft Centerline	— m (ft.)	TBD	
Standard (modulating) Thermostat Range	— °C (°F)	82-93(180-200)	
Maximum Block Coolant Pressure with Closed Thermostat and no Pressure Cap	— kPa (psi)	276	(40)
Minimum Pressure Cap	—kPa (psi)	50	(7)
Maximum Engine Coolant Temperature at Engine Outlet	— °C (°F)	100	(212)
Maximum Engine Coolant Temperature for Engine Protection Devices	—°C (°F)	101.6	(215)
Minimum Engine Coolant Temperature	—°C (°F)	71	(160)
Minimum Fill Rate	—litre/min. (U.S. gpm)	19	(5)
Maximum Initial Fill Time	— min.	5	
Minimum Coolant Expansion Space	—% of System Capacity	6	
Maximum Deaeration Time	— min.	25	
Minimum Drawdown	— % of Total System Capacity	11%	
(Drawdown Must Exceed the Volume Not Filled at Initial Fill & Must Not Include Expansion Space)			
(2) Maximum External Resistance in Aftercooler Circuit	— kPa (psi)	N/A	
(2) Minimum Coolant Flow Through the Aftercooler Circuit with Open Thermostat.....	— U.S. gpm (litre/min.)	N/A	
(2) Coolant Temperature at Aftercooler Radiator Inlet at Maximum Engine Coolant Outlet Temperature—	°C (°F)	N/A	
(2) Maximum Water Temperature into the Aftercooler at Maximum Engine Coolant Outlet Temperature—	°C (°F)	N/A	
(1) Maximum Intake Manifold Temperature	— °C (°F)	N/A	
(1) Maximum Intake Manifold-to-Ambient Temperature Differential (IMTD)	— °C (°F)	N/A	
Fan-on Engine Coolant Outlet Temperature	— °C (°F)	93	(200)
Shutter Opening Coolant Outlet Temperature	— °C (°F)	85	(185)
(1)(2) Shutter Opening Intake Manifold Air Temperature	— °C (°F)	65.6	(150)
(1) Winterfronts Must Not Restrict Air Passage Area Below 120 sq. in. (774 sq. cm)			

LUBRICATION SYSTEM

Normal Operating Oil Pressure Range	— kPa (psi)	69-345	(10-50)
Maximum Lube Oil Flow for Engine Accessories	— litre/min. (U.S. gpm)	4.0	(1)
Maximum Sump Oil Temperature	—°C (°F)	127	(260)
Minimum Engine Oil Pressure for Engine Protection Devices:			
— At Rated Speed and Load	— kPa (psi)	276	(40)
— At Torque Peak Speed and Load	— kPa (psi)	207	(30)
— At Low Idle	—kPa (psi)	69	(10)
Minimum Required Lube System Capacity - Sump plus Filters	— litre (U.S. gal.)	16.3	(4.3)
By-pass Filtration Required	— Yes/No	No	
Angularity of Standard Oil Pan: (Values stated are for intermittent operation only): OP			
— Front Down	— degrees	45	
— Front Up	— degrees	45	
— Side to Side	— degrees	45	

NOTE: Conditions refer to rated power and speed unless otherwise noted.

TBD - To Be Determined

N/A - Not Applicable

N.A. - Not Available

(1) Data Required for Charge Air Aftercooler Circuit

(2) Data Required for Low Temperature Aftercooler Circuit

DS-D403057

CRANKING SYSTEM

12 Volt 24 Volt

Minimum Battery Capacity - Cold Soak at 0°F (-18°C) or Above		
— Engine Only - Cold Cranking Amperes..... — CCA	950	475
— Engine Only - Reserve Capacity..... — min.	160	80
Maximum Starting Circuit Voltage Drop @ ---Amperes..... — Volts	TBD	
Minimum Ambient Temperature for Unaided Cold Start..... — °C (°F)	0	(32)
Minimum Cranking Speed Required for Unaided Cold Start..... — rpm	125	
Breakaway Torque at Minimum Unaided Start Temperature..... — N•m (lb.-ft.)	TBD	
Cranking Torque at Minimum Unaided Start Temperature..... — N•m (lb.-ft.)	TBD	
Cranking Torque at -10°F..... — N•m (lb.-ft.)	TBD	

FUEL SYSTEM

CENTRY: Installations of CENTRY-equipped engines will require information contained in:
 AEB 15.03 CENTRY Technical Package
 AEB 27.03 CENTRY Installation Recommendation, Bulletin 3884651

CELECT: Installations of CELECT-equipped engines will require information contained in:
 AEB 15.01 CELECT Technical Package
 AEB 21.11 CELECT Installation Recommendation, Bulletin 3884575

Maximum Fuel Flow on the Supply Side of the Fuel Pump.....—kg./hr. (lb./hr.)	193	(425)
Maximum Fuel Inlet Restriction		
— with clean fuel filter..... — mm Hg (in. Hg)	102	(4)
— with dirty fuel filter..... — mm Hg (in. Hg)	203	(8)
Maximum Fuel Drain Restriction		
— with check valves..... — mm Hg (in. Hg)	N/A	
— less check valves..... — mm Hg (in. Hg)	510	(20)
Maximum Fuel Inlet Temperature..... — °C (°F)	71	(160)
Minimum Fuel Tank Air Venting Capability Required at 6 in. H ₂ O Back Pressure..... — litre/hr. (ft. ³ /hr.)	340	(12)

NOTE: Conditions refer to rated power and speed unless otherwise noted.

TBD - To Be Determined

N/A - Not Applicable

N.A. - Not Available

(1) Data Required for Charge Air Aftercooler Circuit

(2) Data Required for Low Temperature Aftercooler Circuit

DS-D403057

EEP-210-SM/FF

LOW FUEL FLARE PILOT WITH SINGLE THERMOCOUPLE

MANUFACTURING SPECIFICATIONS

WELDING	WQS AND WPR PER ASME SECTION IX
PAINT SPECIFICATION	CARBON STEEL: N/A
	STAINLESS STEEL: NO COATINGS REQUIRED

NOZZLE INFORMATION

DESCRIPTION	SIZE	QUANTITY	TYPE
PILOT GAS INLET	3/4"	1	PLAIN END
FFG IGNITION LINE	1"	1	PLAIN END
ELECTRONIC IGNITION LINE	3/4"	1	NPTF
THERMOCOUPLE CONNECTION	3/4"	1	NPTF

CONSTRUCTION MATERIAL

SECTION	MATERIAL
PILOT TIP	310 SS
IGNITION LINE	309 SS
MAIN LINE	309 SS
UPPER BRACKET	310 SS
LOWER BRACKET	SS
MIXER	SS
STRAINER	SS

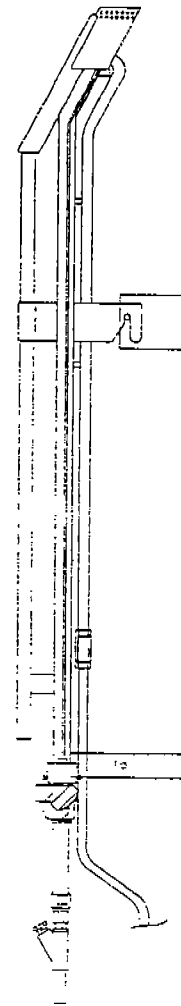
DESIGN INFORMATION

OVERALL LENGTH	8'-7"
WEIGHT	75 LB
THERMOCOUPLE TYPE	K
NUMBER OF THERMOCOUPLES	1 PER PILOT

UTILITY CONSUMPTION

FUEL PER PILOT	50 SCFH (WITH NATURAL GAS AT 10 PSIG)
-----------------------	--

$$50 \text{ SCFH} \cdot 1000 \frac{\text{BTU}}{\text{SCF}} = 50000 \text{ BTU/HR}$$



Subject: [Fwd: RE: PF-20392]

Date: Wed, 11 Apr 2001 14:09:36 -0500

From: Russell D Spradling <rspradli@paraengr.com>

Organization: Paragon Engineering Services, Inc.

To: Matthew A McKinstry <mmckins@paraengr.com>

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

Subject: RE: PF-20392

Date: Wed, 11 Apr 2001 13:58:53 -0500

From: "Leonard, Angela" <LeonardA@kochind.com>

To: "'Russell D Spradling'" <rspradli@paraengr.com>

The estimated emission data for the pilots is as follows:

- 1.) SOX - 100% of the sulfur in their fuel is converted to SOx (assume SO2).
- 2) NOX - 0.06 lb Nox/million Btu heat release
- 3) HC - 99% destruction efficiency
- 4) CO - .28 lb CO/million Btu heat release (I have assumed that you mean CO instead of CO2, since CO2 is not normally a concern)

I hope this helps.

Angela

> -----Original Message-----

> From: Russell D Spradling [SMTP:rspradli@paraengr.com]

> Sent: Wednesday, April 11, 2001 10:07 AM

> To: Leonard, Angela

> Subject: Re: PF-20392

>

> I also need emissions information for your pilots (CO2, HC, SOx, NOx).

> Thanks

> Russell

>

> "Leonard, Angela" wrote:

>

> > Russel,

> >

> > I have had our controls engineer start estimating this for you.

> > It shouldn't take too long.

> >

> > Angela

> >

> > > -----Original Message-----

> > > From: Russell D Spradling [SMTP:rspradli@paraengr.com]

> > > Sent: Wednesday, April 11, 2001 9:10 AM

> > > To: LeonardA@kochind.com

> > > Subject: PF-20392

> > >

> > > Angela,

> > > Your proposal included a Nema 4X panel with air purge to meet class I

> > > div II requirements. Go ahead and quote a Nema 4/7 X panel without

> > > air

> > > purge for class I div II area.
> > > Thanks,
> > > Russell
> > >
> > > --
> > > Paragon Engineering Services, Inc.
> > > <http://www.paraenqr.com>
> > >
> > >
> > >
> > >
> > >
> --
> Paragon Engineering Services, Inc.
> <http://www.paraenqr.com>
>
>
>



FIRE WATER PUMP

Facsimile Cover Sheet

Total number of pages including this cover sheet		Date	
1		February 11, 2000	
To	Name	Dave Brooks	
	Company	Mustang	
	Department		
	Fax	713-460-3852	Telephone 713-460-7261
From	Name	Gary Keithley	
	Company	Caterpillar Inc.	
	Address	Mossville Plant Old Galena Road Dock 55	
	City, State, Zip	Mossville, IL 61552	
	Fax	(309) 578-7152	Telephone (309) 578-8983

Message:

EMISSIONS REQUEST 00 - 03

3406 DIT FIREPUMP

Rating: 246 bkw (330 bhp) @ 2100 rpm
 Test Spec: 074979 BEA: 4W3798
 Test Spec: 073030 BEA: 4W3798

Not To Exceed Values @ Rated

HC g/Hr	CO g/Hr	NOx g/Hr	Part g/Hr
75	345	4059	70

wet " Jacketed " Manifold System.

The above data was not directly measured, it is estimated from other engine data with dry manifolds. This is the best estimate of emissions we can provide for this engine.

Caterpillar Inc recommends that you use the "not to exceed values" to account for instrument and engine variability. If you require exact measurements, an emissions test will be needed on your engine.

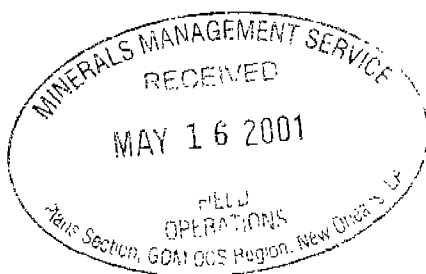
Confidential Communication

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged or confidential. If the reader of this message is not the intended recipient or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately, and return the original.

01-2000-01-20

5/16/01 J. Connor Consulting
Wanda Richmond

Nick - this information
was inadvertently
omitted from the AQR
submitted as Attachment
C on the Right-of-Use
and Easement application.
Sorry for the inconvenience.



Williams Field Services
Gulf Coast Company, L.P.
P.O. Box 645
Tulsa, Oklahoma 74101-0645
1800 South Baltimore
Tulsa, Oklahoma 74119-5284
918/574-9223
918/574-9375 fax

May 14, 2001

Mr. Donald C. Howard
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Nick Wetzel
Plans Unit Supervisor

RE: Right-of-Use and Easement
Proposed Platform, Main Pass Block 261
OCS Federal Waters, Offshore, Alabama

Gentlemen:

In accordance with the provisions of Title 30 CFR Part 250.107, Williams Field Services, Gulf Coast Company, L.P. (Williams) hereby respectfully requests a Right-of-Use and Easement covering the installation and operation of a proposed platform, to be known as Canyon Station, in Lease OCS-G 13035, Main Pass Block 261, Offshore, Alabama.

The proposed platform will serve as host facility for Marathon's Mississippi Canyon Block 348 (Camden Hills Prospect), TotalFinaElf's Mississippi Canyon Block 305 (Aconcagua Prospect), and BP's Mississippi Canyon Block 271, and Desoto Canyon Blocks 177 and 133 (Kings Peak Prospect). Hydrocarbon production from these blocks will be delivered to Canyon Station for processing via two right-of-way pipelines to be installed by Canyon Express.

Williams will install four departing right-of-way pipelines, all of which will terminate at subsea tie-in points on existing pipelines within Main Pass Block 261. Applications for

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two 12-inch and one 16-inch gas line and one 4-inch oil line have been submitted to the pipeline unit under separate cover.

The platform will be a manned structure. Williams Field Services - Gulf Coast Company, L.P. will employ Williams Field Services (WFS) as platform operator. Agreements are in place with producers Marathon, TotalFinaElf and BP giving Williams authority to process Camden Hills, Aconcagua, and King's Peak production. Canyon Express has been designated as agent for the producers in matters pertaining to well operations. Onboard personnel will include both WFS and Canyon Express personnel.

Williams will install a full compliment of hydrocarbon handling facilities at Canyon Station to facilitate processing of production from Camden Hills, Aconcagua and King's Peak. All hydrocarbon handling equipment will be designed, installed and operated to prevent pollution from the proposed structure. Once separated and metered, the gas production will depart the platform via the three gas pipelines and one oil pipeline discussed above. No new nearshore or onshore pipelines or facilities will be constructed.

Williams as required under Title 30 CFR 250.107 and 250.912 will maintain the Canyon Station Platform. Maintenance or repairs that are necessary to prevent pollution of offshore waters shall be undertaken immediately. The facility will be designed, installed and operated in accordance with current regulations, engineering documents incorporated by reference, and industry practices in order to ensure protection of personnel, environment and the facilities.

Williams proposes to install the jacket and a temporary work deck in July 2001. The permanent deck and facilities will be installed in the second quarter of 2002. The proposed schedule is as follows:

7/15/01 to 8/1/01.....	Install jacket and temporary work deck
4/15/02 to 4/20/02.....	Install permanent deck and facilities
6/21/02.....	Production startup

An application for the jacket and temporary deck will be submitted to the structural group under separate cover.

Inquiries may be made to the following authorized representative:

Wanda Richmond
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
(281) 578-3388
e-mail address: wanda@jccteam.com

Williams does not propose the use of any new or unusual technology for Williams' activities aboard the proposed platform.

Williams Field Services - Gulf Coast Company, L.P., is a transmission company. It operates numerous pipeline junction and compressor platforms in the Gulf of Mexico as appurtenances to pipeline rights-of-way. All Williams Field Services-Gulf Coast Company, L.P. operations, including appurtenant platforms, are covered under a \$300,000 Right-of-Way Bond on file with Minerals Management Service (MMS). If requested, Williams is prepared to submit additional bonding for Canyon Station.

Main Pass Block 261 is located approximately 75 miles from the nearest Alabama shoreline. The onshore support base for construction operations will be located in Venice, Louisiana. Upon commencement of production, the onshore support base will be located at Williams' existing field office in Mobile, Alabama. No onshore expansion or construction is anticipated with respect to the proposed activities.

A Vicinity Plat showing the location of Main Pass Block 261 relative to the shoreline and onshore bases is included as Attachment A.

Support vessels and travel frequency during the proposed activities are as follows:

Crew Boat.....	7 trips per week (construction), 0 trips per week (production)
Supply Boat.....	3 trips per week (construction), 1 trip per week (production)
Helicopters.....	4 trips per week (construction), 2 trips per week (production)

Personal vehicles will be the main means of transportation to carry personnel from various locations to the Venice/Mobile shorebases. During construction operations, they will be transported to the platform by the crew boat. When production commences, helicopters will transport personnel to and from the platform. The most practical, direct route permitted by the weather and traffic conditions will be utilized.

During construction, approximately 35-50 personnel may be engaged in designated activities. Upon commencement of production operations, the platform will be manned with approximately 10-12 personnel. Personnel engaged in onshore operations will be the dispatcher at the construction support base, personnel for off loading equipment and materials required to support the activities and personnel needed to transport same to the offshore facility.

No dredging and/or fill operations will be required for the proposed operations.

Main Pass Block 261 is located within the designated Military Warning Area EWTA 1. Accordingly, Williams will contact the Eglin Air Force Development Test Center in order to coordinate and control the electromagnetic emissions during the proposed operations.

As required by regulations, Williams contracted Fugro Geoservices, Inc. to conduct a hazard survey in Main Pass Block 261 for Canyon Station and the departing pipelines. The results of this survey, including maps, bathymetry, analysis of seafloor features and areas that could be disturbed by the proposed activities, and live bottoms, are contained in the Engineering and Hazard Survey Study, February 2001. A copy of this report is included herewith as Attachment B.

Pass Block 261 lies within the area characterized by the existence of live bottoms. The survey identified numerous outcrops/pinnacles within the survey area. They occur as small and isolated features, small clusters and large irregular patches. MMS NTL No. 2000-G21 states that all pinnacle trend features with vertical relief equal to or greater than 8 feet must be avoided by a distance of 100 feet. As shown on the Hazard Survey Report Engineering and Hazard Map, the nearest pinnacle trend feature to the proposed platform is 1000 feet to the northeast.

The seafloor disturbing activities proposed are in water depths less than 400 meters (1312 feet); therefore, chemosynthetic studies or reports are not required. Additionally, the proposed platform is not affected by a topographic feature.

Williams is in the processing of requesting coverage for Canyon Station under its EPA Region VI NPDES General Permit GMG290000, which regulates overboard discharges, restrictions and limitations of waste generated from oil and gas operations in the Western Gulf of Mexico. Discharges covered under the General Permit that will occur from the Canyon Station platform include produced water, domestic waste, deck drainage, sanitary waste, cooling water, hydrostatic test water, and other miscellaneous discharges. Wastes not discharged overboard will be transported to an appropriate treatment or disposal site, in accordance with all Federal, State and Local rules and regulations.

Solid domestic wastes will be transported to shore for proper disposal at an authorized disposal site, and sewage will be treated on location by U.S. Coast Guard approved marine sanitation devices.

Major operations solid wastes include waste chemicals, sanitary and domestic waste, trash and debris, deck drainage, hydraulic fluids, used oil, oily water and filters, and miscellaneous minor wastes.

The categories of waste that may be generated during operations at Canyon Station are solid waste (trash and debris), non-hazardous oilfield waste(oil filters, etc.) and hazardous wastes (waste paint or thinners).

In accordance with MARPOL 73/78, implemented by the U.S. Coast Guard, a Waste Management Plan and Daily Garbage Log will be maintained by Williams. The platform will be equipped with bins for temporary storage of certain garbage. Other types of waste, such as food waste, may be discharged overboard if the discharge can pass through a 25-millimeter type mesh screen. Prior to off loading and/or overboard disposal, an entry will be made in the Daily Garbage Log stating the approximate volume, the date of action, name of the vessel, and destination point.

Williams Field Services - Gulf Coast Company, L.P., is one of several Williams entities covered under Williams Field Services Regional Oil Spill Response Plan (OSRP) submitted in June 1999. Activities proposed herein will be covered by the Regional OSRP.

Williams Field Services' primary equipment provider is Clean Gulf Associates. The Marine Spill Response Corporation's (MSRC) STARS network will provide closest available personnel, as well as an MSRC supervisor to operate the equipment.

In the event of a spill, mechanical response equipment located in Fort Jackson, Louisiana would be transported to a staging area in Venice, Louisiana.

No wells are associated with Canyon Station. The structure will receive production from two right-of-way pipelines operated by Canyon Express. The proposed departing pipelines are right-of-way pipelines operated by Williams Field Services Gulf Coast Company, L.P. and Williams Oil Gathering, L.L.C Each of these lines has a calculated Worst Case Discharge (WCD) less than 1000 barrels as indicated in the previously submitted right-of-way applications.

The total oil storage capacity aboard Canyon Station is 1500 barrels. As shown below, this volume will not supercede the WCD Scenarios in Williams' current Regional OSRP.

Worst Case Discharge Less than 10 Miles

Facility:	10-inch gas/oil pipeline from HI Block 10 to HI Block 4, Texas
State Waters	
State ROW No.:	1-120
WCD:	3155 barrels

Worst Case Discharge Greater than 10 Miles

Facility: 24-inch gas/oil pipeline from HI Block 154 to HI Block 152
ROW No.: OCS-G 3354
WCD: 3080 barrels

Since Williams Field Services-Gulf Coast Company, L.P. has the capability to respond to the WCD spill scenario included in its Regional OSRP submitted in June 1999, and since the WCD scenario determined for Canyon Station platform does not replace the WCD scenario in Williams Field Services Regional OSRP, I hereby certify that Williams Field Services-Gulf Coast Company, L.P. has the capability to respond, to the maximum extent practicable, to a WCD resulting from the activities proposed for Canyon Station platform.

Offshore air emissions related to the proposed activities will result mainly from production operations, platform construction operations, helicopters and service vessels. These emissions occur mainly from combustion or burning of fuels and natural gas and from venting or evaporation of hydrocarbons. The combustion of fuels occurs primarily on diesel-powered generators, pumps or motors and from lighter fuel motors. Other air emissions can result from catastrophic events such as oil spills or blowouts.

Primary air pollutants associated with OCS activities are nitrogen oxides, carbon monoxide, sulphur oxides, volatile organic compounds and suspended particulate.

The proposed Canyon Station site is located within the Breton National Wildlife Refuge Class I Area. To ensure that nitrogen oxide emissions do not exceed 250 tons per year, Williams will utilize natural gas turbines, catalytic converters on compressors and generators, and low fuel flare pilots. With these devices, the calculated nitrogen oxide emissions are 138 tons per year.

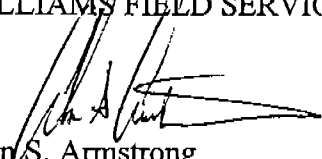
Included herein as Attachment C is the Project Air Quality Emissions Report prepared in accordance with Appendix H of that certain Notice to Lessees (No. 2000-G21), together with equipment specifications and calculations for emissions control equipment.

Should you have any questions or requests for additional information, please contact Williams' regulatory consultant, Wanda E. Richmond, J. Connor Consulting, Inc. at (281) 578-3388.

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Sincerely,

WILLIAMS FIELD SERVICES - GULF COAST COMPANY, L.P.



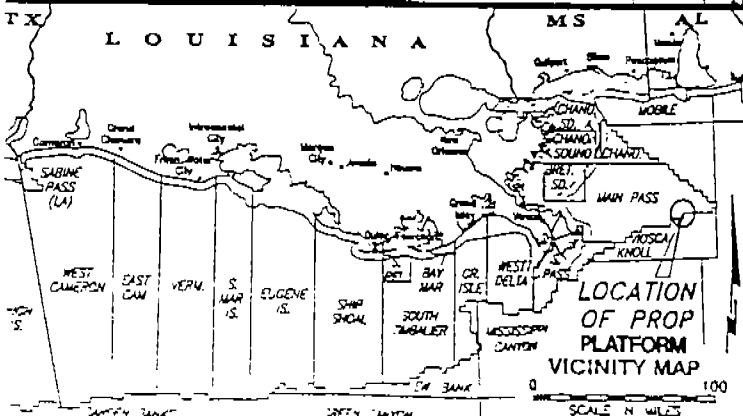
Alan S. Armstrong
Vice President/Midstream Gas & Liquids
Gathering & Processing

ASA:WER

Enclosures

86	181	180	159	158	157	156	155	154	338	339	340	341	342	343	344	345	346	309	310				
97	182	183	184	185	186	187	188	189	170	383	384	385	386	387	388	389	390	353	354				
98	180	179	178	177	176	175	174	173	172	171	427	428	429	430	431	432	433	434	387	388			
109	181	182	183	184	185	186	187	188	189	190	191	192	473	474	475	476	477	478	441	442			
110	205	204	203	202	201	200	199	198	197	196	195	194	193	518	519	520	521	522	485	486			
121	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	564	565	566	529	530			
122	236	235	234	233	232	231	230	229	228	227	226	225	224	223	222	221	608	610	573	574			
133	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	617	618			
134	271	270	269	268	267	266	265	264	263	262	261	260	259	258	257	256	255	654	655	662			
145	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	698	699			
285	294	293	292	291	290	289	288	287	286	285	284	283	734	735	736	737	738	739	740	741	742	705	706
304	305	306	307	773	774	775	776	777	778	779	780	781	782	783	784	785	786	748	750				
309	308	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	783	794				
316	813	814	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	837	838			
857	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	881	882			
945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	925	926				
989	990	991	992	993	994	995	996	997	998	1000	1001	1002	1003	1004	1005	1006	969	970					
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	1	2	3	4	5	49			
71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	45	46	47	48	49	50			
115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	89	90	91	92	93	94			
159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	133	134	135	136	137	138			
212	213	214	215	216	217	177	178	179	180	181													

PROPOSED CANYON STATION PLATFORM



Williams WILLIAMS FIELD SERVICES-GULF COAST COMPANY, L.P.

PROPOSED CANYON STATION PLATFORM
BLK 261, MAIN PASS AREA
GULF OF MEXICO

JOHN E. CHANCE & ASSOCIATES, INC.

GEOLOGIC DATUM: NAD 1927
 PROJECTION: LOUISIANA SOUTH
 GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 40,000'

Job No.: 00-3923 | Date: 02/20/01 | Drawn: MCK | Chart: 01

Revised: 01/20/00 02/20/01 03/20/01 04/20/01 05/20/01 06/20/01 07/20/01 08/20/01 09/20/01 10/20/01 11/20/01 12/20/01

ATTACHMENT "C"

DOCD AIR QUALITY SCREENING CHECKLIST

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	WILLIAMS FIELD SERVICES, GULF COAST COMPANY, LP
AREA	MAIN PASS
BLOCK	261
LEASE	OCS-G13035
PLATFORM	PIPELINE JUNCTION PLATFORM
WELL	N/A
COMPANY CONTACT	MEL WOOD
TELEPHONE NO.	713-570-8094 OR 713-215-3258
REMARKS	INSTALL AND OPERATE JUNCTION PLATFORM TO RECEIVE AND PROCESS PRODUCTION FROM CANYON EXPRESS PIPELINES.

'Yes'	'No'	Air Quality Screening Questions
X		1. Is the concentration of H ₂ S expected greater than 20 ppm?
X		2. Is the burning of produced liquids proposed?
X		3. Is gas flaring or venting which would require Regional Supervisor of Production and Development approval under Subpart K proposed?
X		4. Does the facility process production from 8 or more active wells?
X		5. Is the facility within 200km of the Breton Area?
X		6. Will the proposed activity be collocated at (same surface location), or bridge attached to, a previously approved facility?
X		7. Is the proposed activity within 25 miles of shore?
X		8. Are semi-submersible activities involved and is the facility within 75 miles of shore?
X		9. Are drillship operations involved and is the facility within 145 miles of shore?

If ALL questions are answered "No":

Fill in the information below about your lease term pipelines and submit only this coversheet with your plan.

If ANY question is answered "Yes":

Prepare and submit a full set of spreadsheets with your plan.

LEASE TERM PIPELINE CONSTRUCTION INFORMATION:		TOTAL NUMBER OF CONSTRUCTION DAYS
YEAR	NUMBER OF PIPELINES	
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

AIR EMISSION COMPUTATION FACTORS

OMB Control No. xxxx-xxxx
Expiration Date: Pending

Fuel Usage Conversion Factors		Natural Gas Turbines		Natural Gas Engines		Diesel Recip. Engine		REF.	DATE
	SCF/hp-hr	9.524	7.143	GAL/hp-hr	0.0483	AP42 3.2-1	476 & 8/84		
Equipment/Emission Factors	units	PM	SOX	NOx	VOC	CO	REF.	DATE	
NG Turbines	gms/hp-hr		0.00247	1.3	0.01	0.83	AP42 3.2-1 & 3.1-1	10/96	
NG 2-cycle lean	gms/hp-hr		0.00185	10.9	0.43	1.5	AP42 3.2-1	10/96	
NG 4-cycle lean	gms/hp-hr		0.00185	11.8	0.72	1.6	AP42 3.2-1	10/96	
NG 4-cycle rich	gms/hp-hr		0.00185	10	0.14	8.6	AP42 3.2-1	10/96	
Diesel Recip. < 600 hp.	gms/hp-hr	1	1.468	14	1.12	3.03	AP42 3.3-1	10/96	
Diesel Recip. > 600 hp.	gms/hp-hr	0.32	1.468	11	0.33	2.4	AP42 3.4-1	10/96	
Diesel Boiler	lbs/bbl	0.084	2.42	0.84	0.008	0.21	AP42 1.3-12,14	9/98	
NG Heaters/Boilers/Burners	lbs/mmscf	7.6	0.593	100	5.5	84	AP42 1.4-1, 14-2, & 14-	7/98	
NG Flares	lbs/mmscf		0.593	71.4	60.3	388.5	AP42 11.5-1	9/91	
Liquid Flaring	lbs/bbl	0.42	6.83	2	0.01	0.21	AP42 1.3-1 & 1.3-3	9/98	
Tank Vapors	lbs/bbl				0.03		E&P Forum	1/93	
Fugitives	lbs/hr/comp.				0.0005		API Study	12/93	
Glycol Dehydrator Vent	lbs/mmscf				6.6		La. DEQ	1991	
Gas Venting	lbs/scf				0.0034				

Sulfur Content Source	Value	Units
Fuel Gas	3.33	ppm
Diesel Fuel	0.4	% weight
Produced Gas(Flares)	3.33	ppm
Produced Oil (Liquid Flaring)	1	% weight

AIR EMISSION CALCULATIONS - FIRST YEAR

OMB Control No. 4184-3111
Expiration Date: Pending

COMPANY	WILLIAMS FIELD SERVICES OPERATIONS	AREA	EQUIPMENT	BLOCK	LEASE	PLATFORM	WELL	CONTRACT	PHONE	REMARKS	ESTIMATED TONS							
											CO	SOX	NOX	PM	SOX	NOX	PM	SOX
				RATING	CCS-G10313	E JUNCTION PL	ACT. FUEL	MEL WOOD	715-370-8984 OR #REF!									
				HP	MAX FUEL	ACT. FUEL	RUN TIME											
				MMBTU/HR	SCF/HR	SCF/D	HR/D	DAYS	PH	SOX	NOX	PM	SOX	NOX	PM	SOX	NOX	CO
DRILLING		Diesel Engines	PRIME MOVER>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			PRIME MOVER>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			PRIME MOVER>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			BURNER diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			AUXILIARY EQUIP>600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			VESSELS>600hp diesel(crew)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			VESSELS>600hp diesel(tugs)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE			PIPELINE LAY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INSTALLATION			SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			PIPELINE BURY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			VESSELS>600hp diesel(crew)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY			DERRICK BARGE diesel(JACKET)	25065	1210.6395	29055.35	24	7	17.67	81.05	607.30	1.48	6.81	51.01	1.53	6.81	51.01	11.13
			DB TUG diesel(JACKET)	10000	483	11582.00	24	7	7.06	32.33	242.29	0.59	2.72	20.35	0.61	2.72	20.35	4.44
			MATERIAL TUG diesel(JACKET)	3000	144.9	3477.60	24	7	2.11	9.70	72.69	0.08	0.36	2.62	0.08	0.36	2.62	0.87
			VESSELS>600hp diesel(crew)	2065	99.7395	2393.75	8	7	1.46	6.68	50.03	0.18	0.81	6.11	0.18	0.81	6.11	1.33
			VESSELS>600hp diesel(supply)	2065	99.7395	2393.75	10	2	1.46	6.68	50.03	0.04	0.19	1.40	0.04	0.19	1.40	0.31
			VESSELS>600hp diesel(supply)	2065	99.7395	2393.75	10	2	1.46	6.68	50.03	0.01	0.07	0.50	0.01	0.07	0.50	0.11
PRODUCTION			RECIP >600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			RECIP >600hp diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			SUPPORT VESSEL diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			TURBINE nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			RECIP 2 cycle lean nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			RECIP 4 cycle lean nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			RECIP 4 cycle rich nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			RECIP 4 cycle rich nat gas	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			BURNER 750hp	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MISC.	BPD	SCF/HR	COUNT												
			TANK.	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			FLARE.	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			PROCESS VENT.	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			FUGITIVES.	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			GLYCOL STILL VENT.	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DRILLING			OIL BURN	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST			GAS FLARE	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			2001 YEAR TOTAL						31.88	146.14	1095.03	2.39	10.84	81.99	2.46	10.84	81.99	17.89
EXEMPTION			DISTANCE FROM LAND IN MILES						2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50
CALCULATION																		60467.18

AIR EMISSIONS CALCULATIONS - FOURTH YEAR

COMPANY OPERATIONS	AREA	BLOCK RATING	LEASE MAX. FUEL GAL/HR	PLATFORM E. JUNCTION PL ACT. FUEL SCF/D	WELL NO	MEL WOOD CONTACT	PHONE 713 570-3684 O / 37671	REMARKS	ESTIMATED TONS																										
									SOX	NOX	CO	PM	SOX	NOX	CO	PM																			
DRILLING	Diesel Engines Hul Gas Engines	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																		
																		PRIME MOVER>600hp diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
																		PRIME MOVER>600hp diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																		PRIME MOVER>600hp diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																		BURNER diesel	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		AUXILIARY EQUIP-<600hp diesel	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(crew)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(flugs)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	PIPELINE LAY BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																		
																		SUPPORT VESSEL BARGE diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
																		SUPPORT VESSEL BARGE diesel	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		SUPPORT VESSEL diesel	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(crew)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	DERRICK BARGE diesel	0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																		
																		MATERIAL TUG diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
																		VESSELS>600hp diesel(crew)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		VESSELS>600hp diesel(supply)	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP <600hp diesel(REWATER PUMP)	330	15,939	362.54	4	365	0.73	1.07	10.18	0.81	2.20	0.53	0.79	1.76	7.83	0.59	0.59																		
																		RECIP <600hp diesel(CRANE)	185	8,935	214.45	4	365	0.41	0.60	5.70	0.46	1.23	0.30	0.44	1.15	3.43	0.33	0.33	
																		SUPPORT VESSEL diesel(GEN)	1675	80,902.5	1941.68	24	26	1.18	5.42	40.58	1.22	8.85	0.37	1.89	4.8	12.65	0.38	0.38	
																		SUPPORT VESSEL diesel(SUPPLY)	2065	99,739.5	2393.75	10	52	1.46	6.68	50.03	1.50	10.92	0.36	1.74	4.8	13.01	0.39	0.39	
																		TURBINE nat gas(BOOSTER COMP #1)	6500	61806	148574.00	24	365		0.04	16.61	0.14	11.88		0.15	4.6	8.42	0.63	0.63	
																		TURBINE nat gas(BOOSTER COMP #2)	6500	61806	148574.00	24	365		0.04	16.61	0.14	11.88		0.15	4.6	8.42	0.63	0.63	
																		RECIP 2 cycle lean nat gas	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		RECIP 4 cycle lean nat gas(FLASH GAS COMP)	325	2321.475	55715.40	24	365		0.00	8.45	0.00	1.15		0.01	3.4	7.00	0.26	0.26	
																		RECIP 4 cycle lean nat gas	0	0	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
																		RECIP 4 cycle rich nat gas(GENERATOR #1)	1675	11964.525	287148.60	24	362		0.01	36.89	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
RECIP 4 cycle rich nat gas(GENERATOR #2)	1675	11964.525	287148.60	24	352		0.01	36.89	0.00	31.73		0.03	12.1	195.84	2.18	2.18																			
RECIP 4 cycle rich nat gas(GENERATOR #3)	413	39333.33	944000.00	24	365		0.30	3.93	0.02	3.30	1.31	0.10	1.9	15.3	2.18	2.18																			
MISC.	BPD	SCF/HR	COUNT																																
TANK-	0	50	0	0	0	0	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
FLARE-(HI PRESSURE FLARE)	50	50	0	24	5	0	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
FLARE-(LO PRESSURE FLARE)	50	50	0	24	5	0	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
FLARE-(ATMOSPHERIC FLARE)	7300	7300	0	24	365	0	0.00	0.00	0.00	24.82	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
PROCESS VENT-(ATMOSPHERIC)	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
FUGITIVES	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
GLYCOL STILL VENT.	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
OIL BURN	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
GAS FLARE	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																	
2004 YEAR TOTAL							4.07	13.87	229.00	31.85	114.94	2.86	5.12	114.87	122.83	108.71	3.40	0.00																	
EXEMPTION CALCULATION							2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50	2497.50																
							60487.19																												

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx
Expiration Date: Pending

COMPANY	AREA	BLOCK	LEASE	PLATFORM	WELL
WILLIAMS FIELD	MAIN PASS	261	OCS-G13035	PIPELINE JUNCTION PL	N/A
Substance					
Year	PM	SOX	NOX	VOC	CO
2001	2.39	10.94	81.99	2.46	17.89
2002	2.76	7.73	503.81	83.16	273.57
2003	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2004	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2005	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2006	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2007	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2008	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2009	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2010	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2011	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2012	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2013	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2014	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2015	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2016	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2017	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2018	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2019	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2020	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2021	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2022	2.88	5.12	141.87-566.22	122.63	119.16-399.75
2023	2.88	5.12	141.87-566.22	122.63	119.16-399.75

AIR EMISSION CALCULATIONS

OMB Control No. xxxx-xxxx
Expiration Date: Pending

2024	2.88	5.12	14,875,666.22	122.63	19.16-399.75
2025	2.88	5.12	14,875,666.22	122.63	19.16-399.75
2026	2.88	5.12	14,875,666.22	122.63	19.16-399.75
2027	2.88	5.12	14,875,666.22	122.63	19.16-399.75
2028	2.88	5.12	14,875,666.22	122.63	19.16-399.75
2029	2.88	5.12	14,875,666.22	122.63	19.16-399.75
2030	2.88	5.12	566.22	122.63	19.16-399.75
Allowable	2497.50	2497.50	2497.50	2497.50	60467.19

Paperwork Reduction Act

The Paperwork Reduction Act of 1995 (44 U.S.C. Chapter 35) requires us to inform you that MMS collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for MMS approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. The use of this form is voluntary until OMB approves it. The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 580 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street N.W., Washington, DC 20240.