

Main Induction Motor Data Sheet

Recycle Gas Compressor
T-Req: MJ2-0003

KBR

**ACCEPTANCE
FOR ENGINEERING USE**

THIS DOCUMENT IS:

ACCEPTED (Code 1) X
ACCEPTED WITH COMMENTS (Code 2) _____
NOT ACCEPTED (Code 3) _____
NOT REVIEWED (Code 4) _____

ACCEPTANCE DOES NOT RELIEVE SUPPLIER
FROM FURNISHING MATERIAL IN CONFORMANCE
WITH ORDER. REFER TO SDR-1 FOR FULL
DEFINITION OF ACCEPTANCE CONDITIONS.

DISCIPLINE MJ BY MEJ
DATE 05 SEPT 12

CERTIFIED FOR CONSTRUCTION

Purchaser: Mississippi Power Company

Purchaser's Order No.: MPC18137-0001

User: Mississippi Power Company

Shop Order No.: F128251 / F128252

Serial No.: CO1008 / CO2008

General Order No.: H11005

FOR APPROVAL

Avoid delay - to:
 establish maintain
shipping promise. One approved
print must be returned by:

8/20/2012

By: Ivan Donahey

Date: 8/6/2012

FOR RECORD

Any requested change of this
equipment will result in:
1. Contract price adjustment.
2. Extended shipping promise as this
contract is in manufacturing process.

By: _____

Date: _____

VDSS CODE

Southern Company Doc No.

MM109266

Elliott Document No. **Rev.**

DOC000000058642 0

Sheet **1** of **3**

Form 1157 (04/01/05)

Southern Company Generation Kemper County
MM109766 B Unit 1

ELLIOT COMPANY PO: MPC18137-0001

DOC000000058642 Rev: 2

IGCC - GASIFIER - MULTIPAGE - RECYCLE GAS COMPRESSOR - MAIN INDUC

APPROVED

Note to Bidders:
Do not add rows or columns
to spread sheet. Row height
can be modified.

Motor Proposal Evaluation Data Form Section 7
for Kemper County

Recycle Compressor Drive
Job No: SCS MJ42
Item No: _____
Requisition No: _____

7.0 DESCRIPTIVE DATA

7.1 BASIC DATA

Application
Quantity
Horsepower
Voltage
Current
RPM
Service Factor
Frame Size
Rotor Weight
Motor Weight
IEEE Voltage Withstand Curve (IEEE 522 Fig. 1 or Fig. 2)
Speed (Single, Dual, Variable)
Orientation (Horizontal or Vertical)
Non-reverse Ratchet?
Inverter Duty?
Insulation Class
Temperatur Rise
Sound Level
Stator Temperature Rise @ 1.0 SF
Embedded Detector/Resistance
Stator Temperature Rise @ 1.15 SF
Embedded Detector/Resistance
Subtransient Reactance Xd"
Subtransient Reactance kVA Base
X/R Ratio (Fault)

Centrifugal or Screw Compressor
2
2800
4000
345
1780
1
5614
4400
16406
Fig 2
Single
Horizontal
NA
NA
Class F
155C
80dBA at 3 feet
80C
Embedded Detector
NA
NA
0.152
1205.968
37

7.2 VERTICAL MOTORS ONLY

Critical Reed Frequency (Hz)
Motor Static Deflection (in.)
Motor CG above base (in.)

7.3 STANDARDS

Motor
Welding
Brazing

7.4 STATOR

Winding Material:
Lamination insulation material:
Number of Stator Slots
VPI Test Coils?
Turn Insulation
Volts/Turn:
Groundwall Volts/Mil:

Copper
C5
60
Yes (Yes/No)
Polyimide Film
39
41

7.5 ROTOR

Rotor Material:
Fabricated Rotor Construction?
No. of Rotor Bars
Floating Rotor?
If yes, Allowable Rotor Movement (in.)

Copper Alloy
Yes (Yes/No)
47
No (Yes/No)

APPROVED

Note to Bidders:
Do not add rows or columns
to spread sheet. Row height
can be modified.

Motor Proposal Evaluation Data Form Section 7
for Kemper County

Recycle Compressor Drive
Job No: SCS MJ42
Item No: _____
Requisition No: _____

7.15	CONDUIT BOX	F1	
	Arrangement (F1 or F2)	Bottom	
	Conduit Entry (Top/Bottom)		
	Type (NEMA, ANSI II, etc)	NEMA	
	Oversized	Yes	(Yes/No)
	Surge Protection recommended?	Yes	(Yes/No)
	Arresters Rating	4.5 KV, 3.8MCOV	
	Capacitors Rating	4160 V, 0.5 mf/pole	
	Capacitors Dielectric Material:	Faradol 800	
	Hawk IR View Ports	Yes	(Yes/No)
	Isolation Barriers	No	(Yes/No)
	Rupture (Pressure Relief) Panel	Yes	(Yes/No)
	Expected Life:		
	Differential: 3 Current Transformers	Yes	(Yes/No)
	If Yes: Ratio	50:05:00	
	If Yes: Accuracy	C10	
7.16	COATING SYSTEM	Epoxy coating w/ Polyurethane overcoat	
	Type		
	Finish Color:	Storm Blue	
	Color ID:	99M40P	
7.17	TEMPERATURE DETECTORS		
	Stator Quantity	6	
	Stator Type	100 Ohm Platinum	
	Bearings Quantity	1 Dual element/bearing	
	Bearings Type	100 Ohm Platinum	
	SEL 2600D RTD Module	Yes	
7.18	SPACE HEATERS	918W, 460V, 1PH	
	Quantity	8	
	Type	strip finned	
	Voltage	460V circuit	
	Watts per heater	500W,240V/htr derated to 114.75W, 115V	
	No. of Heater elements	8	
7.19	SOLE PLATES		
	Provided? (if no, please provide optional pricing in proposal)	No	(Yes/No)
7.20	VIBRATION EQUIPMENT		
	Provisions for non-contacting transducers only?	Yes	(Yes/No)
	Provide non-contacting transducers? (ProxPac Type)	No	(Yes/No)
	Provide options for non-contacting transducers?	No	(Yes/No)
	Provide Bearing Housing Vibration Sensors?	Yes	(Yes/No)
7.21	IMPACT RECORDER	NA	
	Manufacture		
	Model		
	Quantity		
	Featrues:		
	Data Logger		(Yes/No)
	Date and Time Stamping		(Yes/No)
	GPS Tracking		(Yes/No)
	Environment Indicator (Humidity and Temperature)		(Yes/No)
	Real Time Data Reporting		(Yes/No)
7.22	TESTS		
	Routine?	yes	(Yes/No)

Note to Bidders:
Do not add rows or columns
to spread sheet. Row height
can be modified.

Motor Proposal Evaluation Data Form Section 7
for Kemper County

Recycle Compressor Drive
Job No: SCS MJ42
Item No: _____
Requisition No: _____

	Complete?	yes	(Yes/No)
	Witnessed?	yes	(Yes/No)
	Vibration Acceptance Standard for Motors?	no	(Yes/No)
7.23	DOCUMENTATION INCLUDED WITH PROPOSAL		
	Outline Drawings	yes	(Yes/No)
	Conduit Box Details	yes	(Yes/No)
	Connection Diagrams	yes	(Yes/No)
	Performance Curves	yes	(Yes/No)
	Completed VDSS Form		(Yes/No)
7.24	DOCUMENTATION INCLUDED AFTER AWARD		
	Specification Clause 8.1.2 Requirements		(Yes/No)
	Outline Drawings	Yes	(Yes/No)
	Connection Diagrams	Yes	(Yes/No)
	Other documents specified in VDSS		(Yes/No)
	Instruction book	Yes	(Yes/No)
	Proposal Evaluation Data Form - Section 7		(Yes/No)
	Performance Curves	100% Voltage	Min Voltage
	Torque - Speed	Yes	Yes (Yes/No)
	Current - Speed	Yes	Yes (Yes/No)
	Current - Time	No	No (Yes/No)
7.25	ADDITIONAL INFORMATION REQUIREMENTS		
7.25.1	Utility user list is attached.		(Yes/No)
	Detailed description of insulation system is attached.		(Yes/No)
	List and description of Complete Test is attached.		(Yes/No)
	List of Subvendors is attached.		(Yes/No)
	Rate sheet for start-up support is attached.		(Yes/No)
	Additional Data Required:		
	Rotor weight	Yes	(Yes/No)
	Transient Torque: Short circuit & System Switching	No	(Yes/No)
7.26	TECHNICAL SPECIFICATION		
	Exceptions		(Yes/No)
7.27	EXCEPTIONS (List Exceptions in column or provide reference to attached)		

APPROVED