

Compressor Estimated Performance Curves

Recycle Gas Compressor
 T-Req: MJ2-0003

CERTIFIED FOR CONSTRUCTION

Purchaser: **Mississippi Power Company**
 Purchaser's Order No.: **H10-606-043**
 User: **Mississippi Power Company**
 Shop Order No.: **F128251 / F128251**
 Serial No.: **C01008 / C02008**
 General Order No.: **H11005**

FOR APPROVAL

Avoid delay - to:
 establish maintain
 shipping promise. One approved
 print must be returned by:
 May 27th, 2011

By: Ivan Donahey
 Date: May 13th, 2011

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

B4.3

Southern Company Doc No.

Elliott Document No.	Rev.
DOC00000058603	0

Sheet **1** of **7**



SOUTHERN COMPANY SERVICES

MJ2-0003

KEMPER COUNTY, MS

Recycle Gas Compressors

CO1008 / CO2008

KEMPER COUNTY IGCC UNIT 1 PROJECT

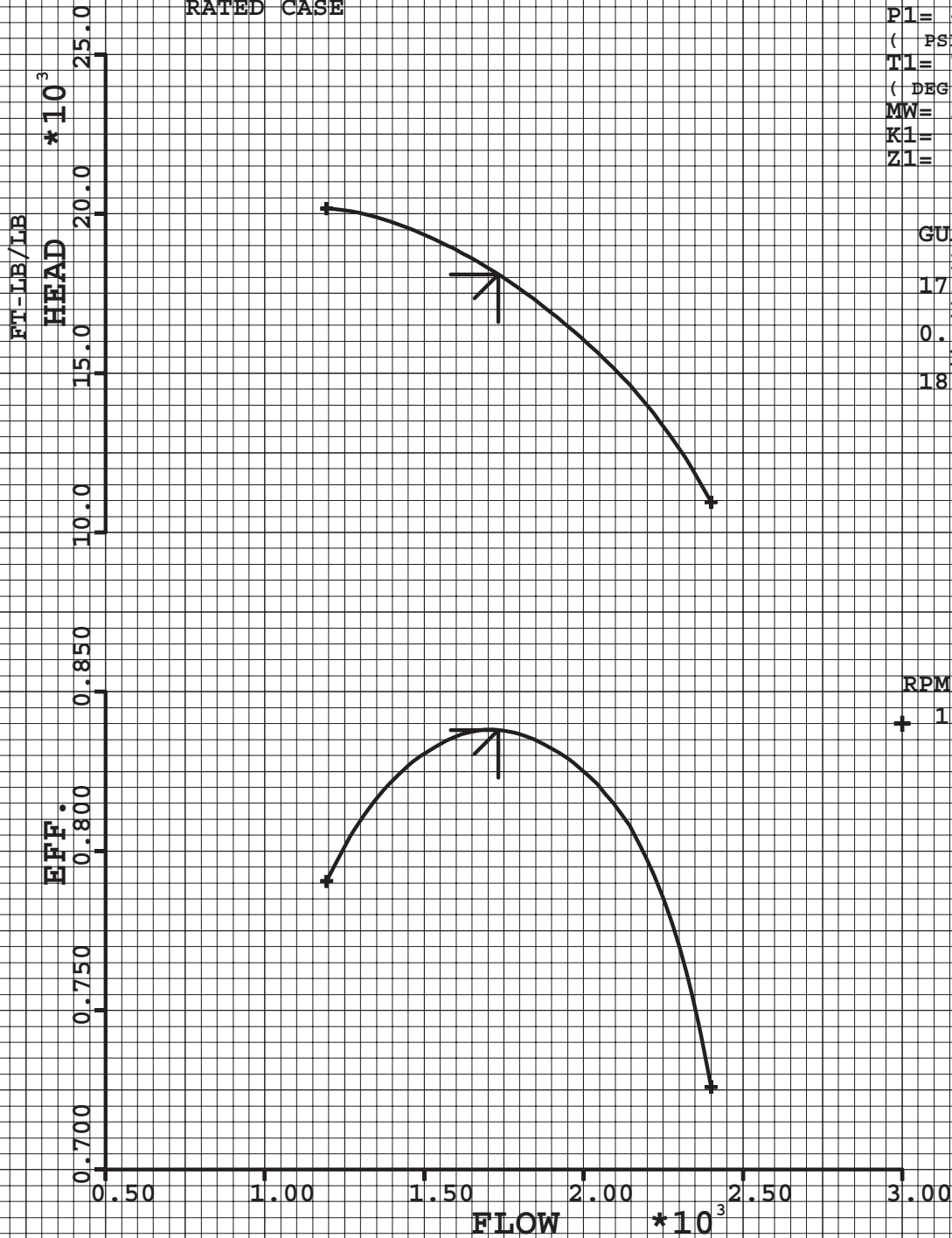
ELLIOTT MODEL 15MB3

ELLIOTT QUOTE H10-606-043

CONDITIONS

RATED CASE

P1= 465.00
 (PSIA)
 T1= 77.0
 (DEG. F)
 MW= 20.30
 K1= 1.423
 Z1= 0.999



GUAR. PT
 FLOW
 1733.
 EFF.
 0.838
 HEAD
 18118.

RPM
 + 12036.

CFM

12/09/10
JSO



SOUTHERN COMPANY SERVICES

MJ2-0003

KEMPER COUNTY, MS

Recycle Gas Compressors

CO1008 / CO2008

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ELLIOTT MODEL 15MB3

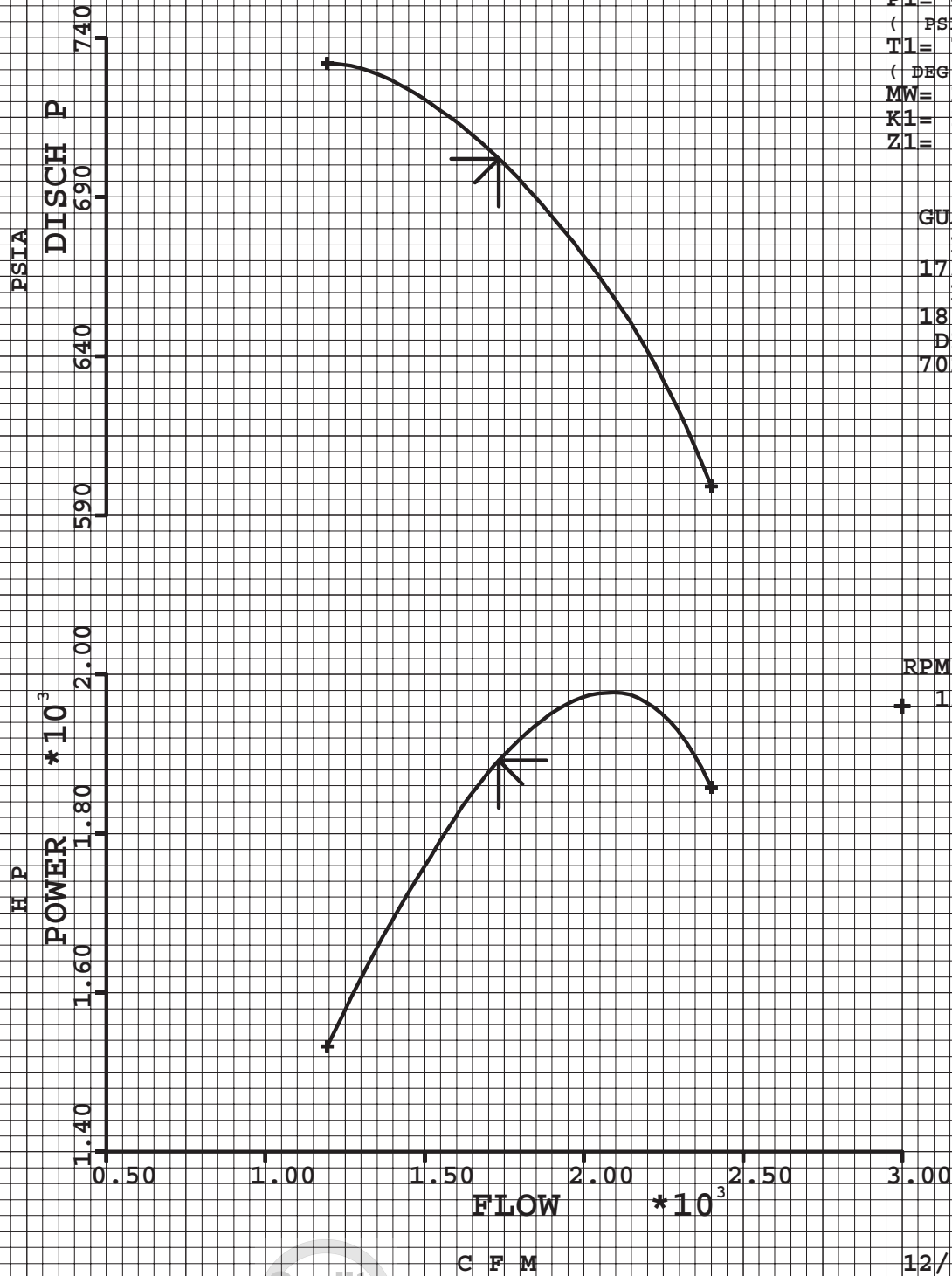
ELLIOTT QUOTE H10-606-043

CONDITIONS

RATED CASE

P1= 465.00
 (PSIA)
 T1= 77.0
 (DEG. F)
 MW= 20.30
 K1= 1.423
 Z1= 0.999

GUAR. PT
 FLOW
 1733.
 POWER
 1893.
 DISCH P
 702.00



12/09/10
 JSO

SOUTHERN COMPANY SERVICES

Recycle Gas Compressors

CO1008/CO2008

KEMPER COUNTY, MS

KEMPER COUNTY IGCC UNIT 1 PROJECT

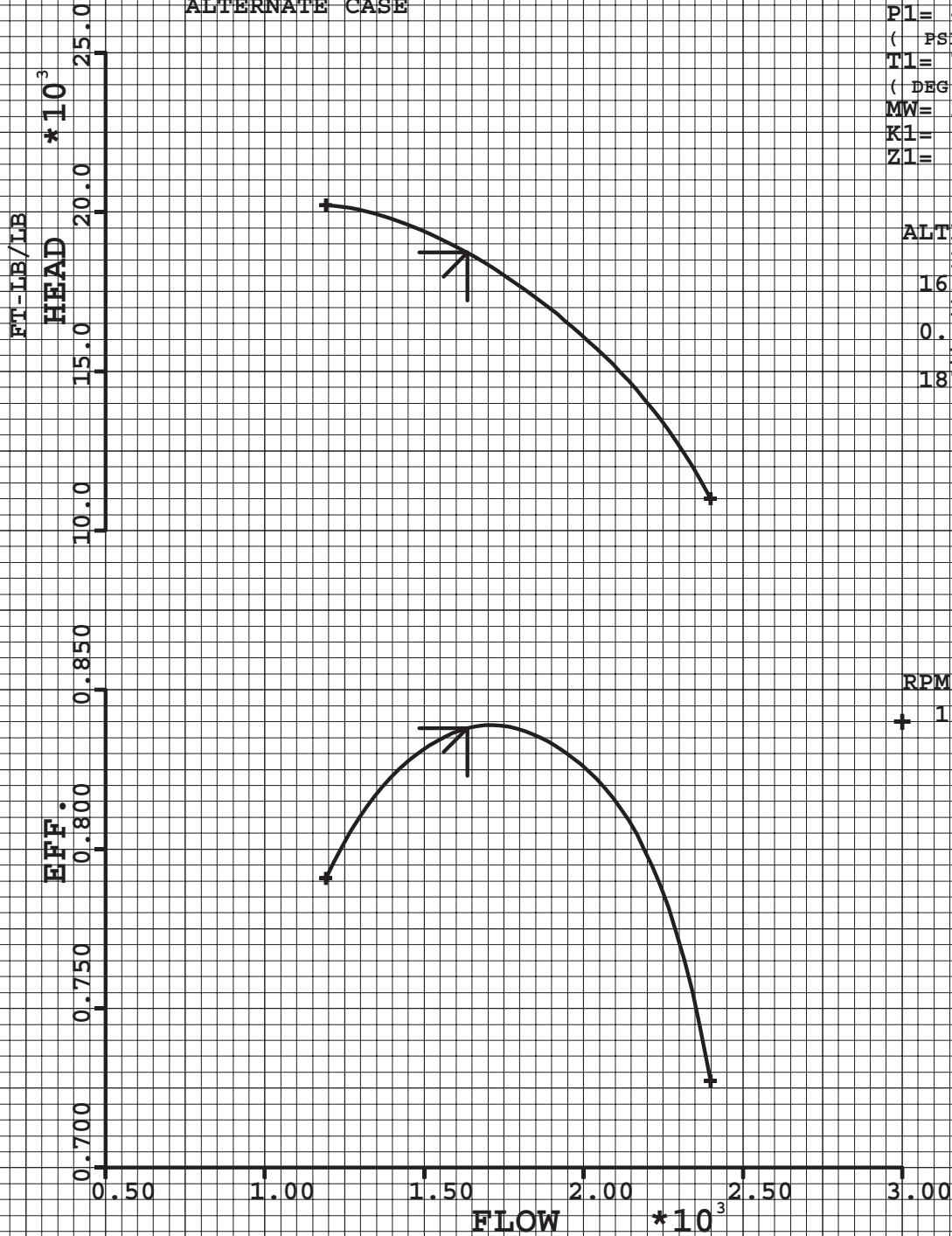
ELLIOTT MODEL 15MB3

ELLIOTT QUOTE H10-606-043

CONDITIONS

ALTERNATE CASE

P1= 493.00
 (PSIA)
 T1= 77.0
 (DEG. F)
 MW= 20.30
 K1= 1.425
 Z1= 0.999



ALTER. PT
 FLOW
 1635.
 EFF.
 0.838
 HEAD
 18720.

RPM
 + 12036.



12/09/10
 JSO

SOUTHERN COMPANY SERVICES

MJ2-0003

KEMPER COUNTY, MS

Recycle Gas Compressors
CG1008 / CO2008

KEMPER COUNTY IGCC UNIT 1 PROJECT

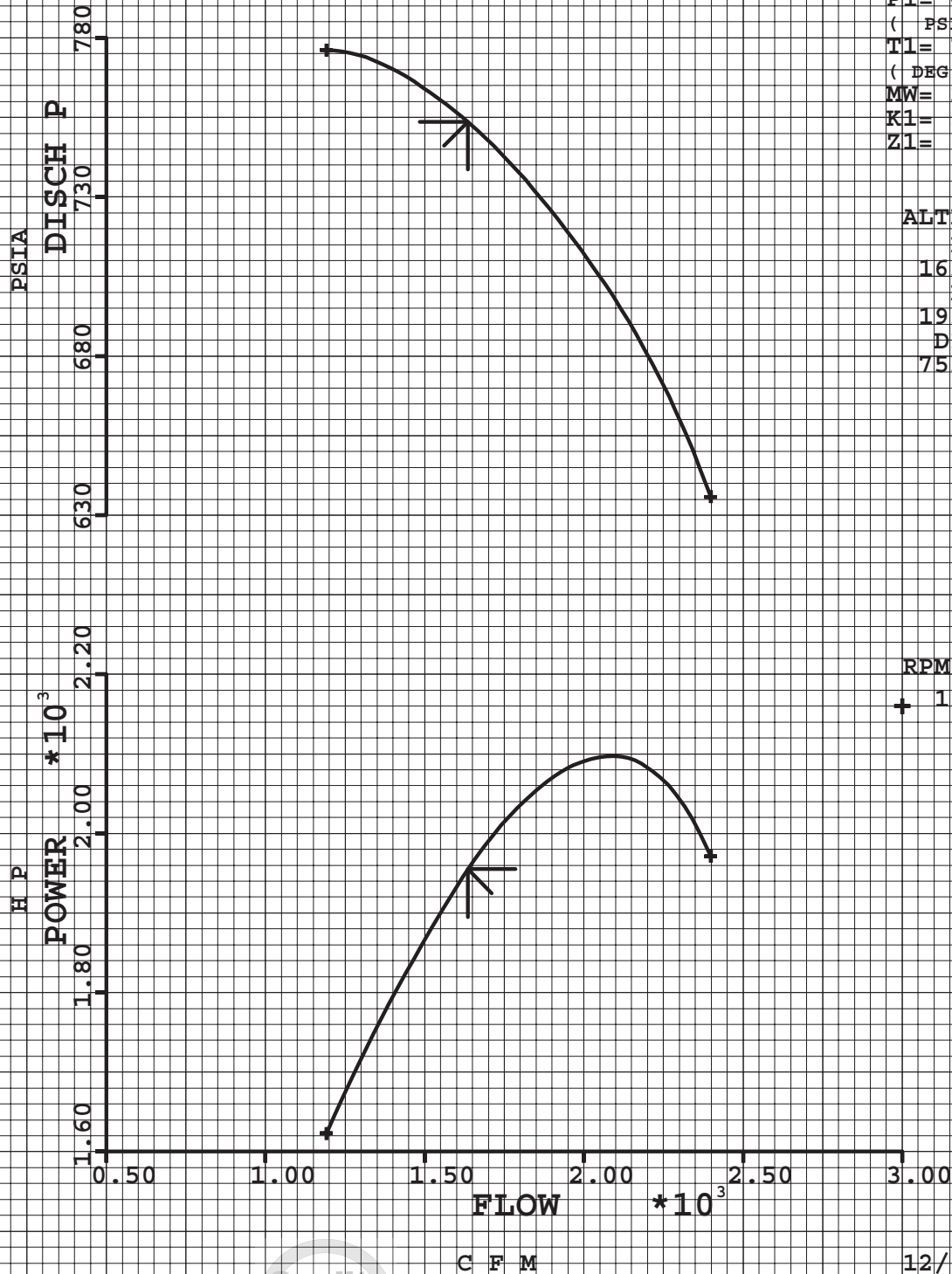
ELLIOTT MODEL 15MB3

ELLIOTT QUOTE H10-606-043

CONDITIONS

ALTERNATE CASE

P1= 493.00
(PSIA)
T1= 77.0
(DEG. F)
MW= 20.30
K1= 1.425
Z1= 0.999



12/09/10
JSO

SOUTHERN COMPANY SERVICES

MJ2-0003

KEMPER COUNTY, MS

Recycle Gas Compressors

CO1003 / CO2008

KEMPER COUNTY IGCC UNIT 1 PROJECT

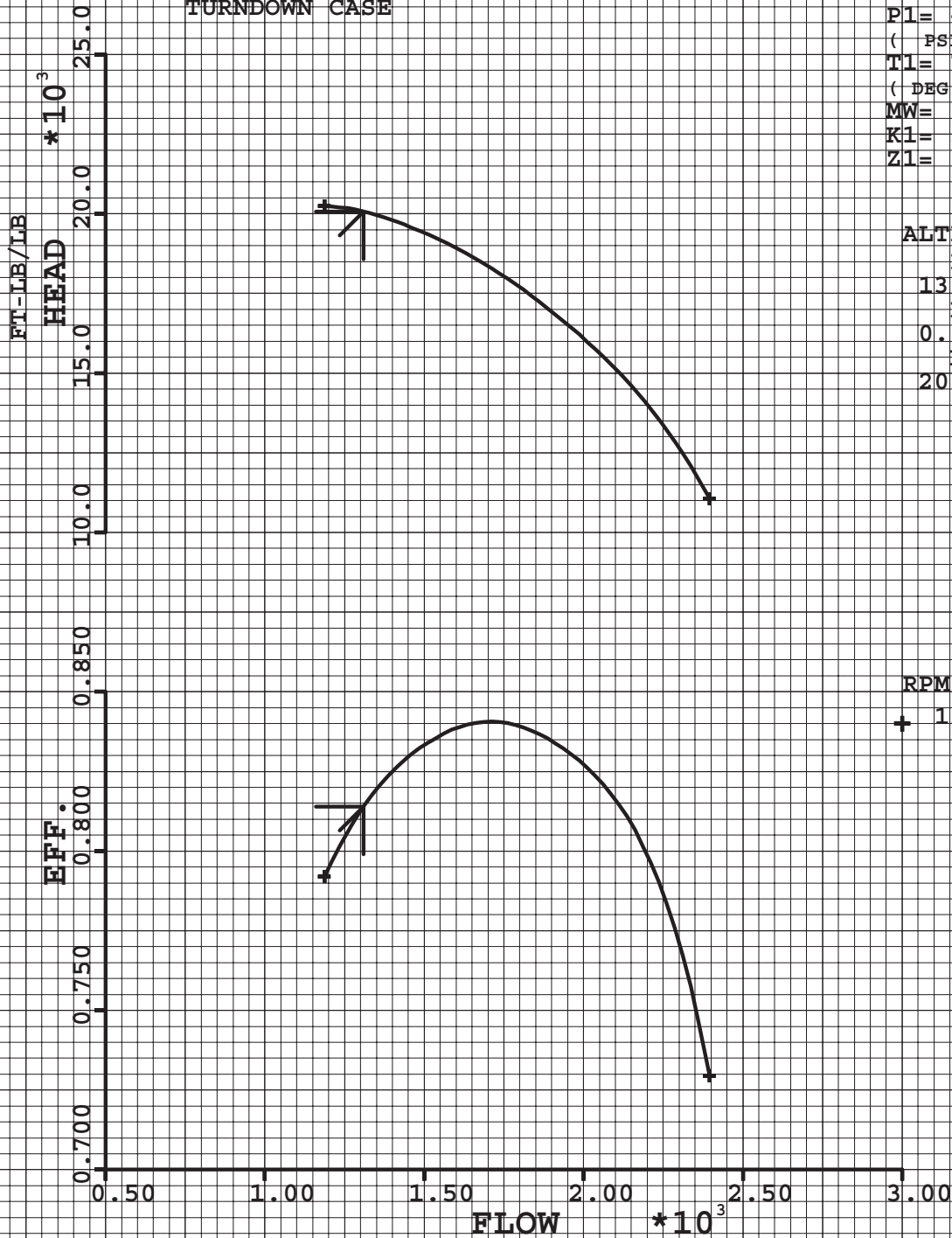
ELLIOTT MODEL 15MB3

ELLIOTT QUOTE H10-606-043

CONDITIONS

TURNDOWN CASE

P1= 442.00
 (PSIA)
 T1= 77.0
 (DEG. F)
 MW= 19.90
 K1= 1.421
 Z1= 1.000



ALTER. PT
 FLOW
 1310.
 EFF.
 0.814
 HEAD
 20073.

RPM
 + 12036.

C F M

12/09/10
JSO



SOUTHERN COMPANY SERVICES

MJ2-0003

KEMPER COUNTY, MS

Recycle Gas Compressors

CO1008 / CO2008

KEMPER COUNTY IGCC UNIT 1 PROJECT

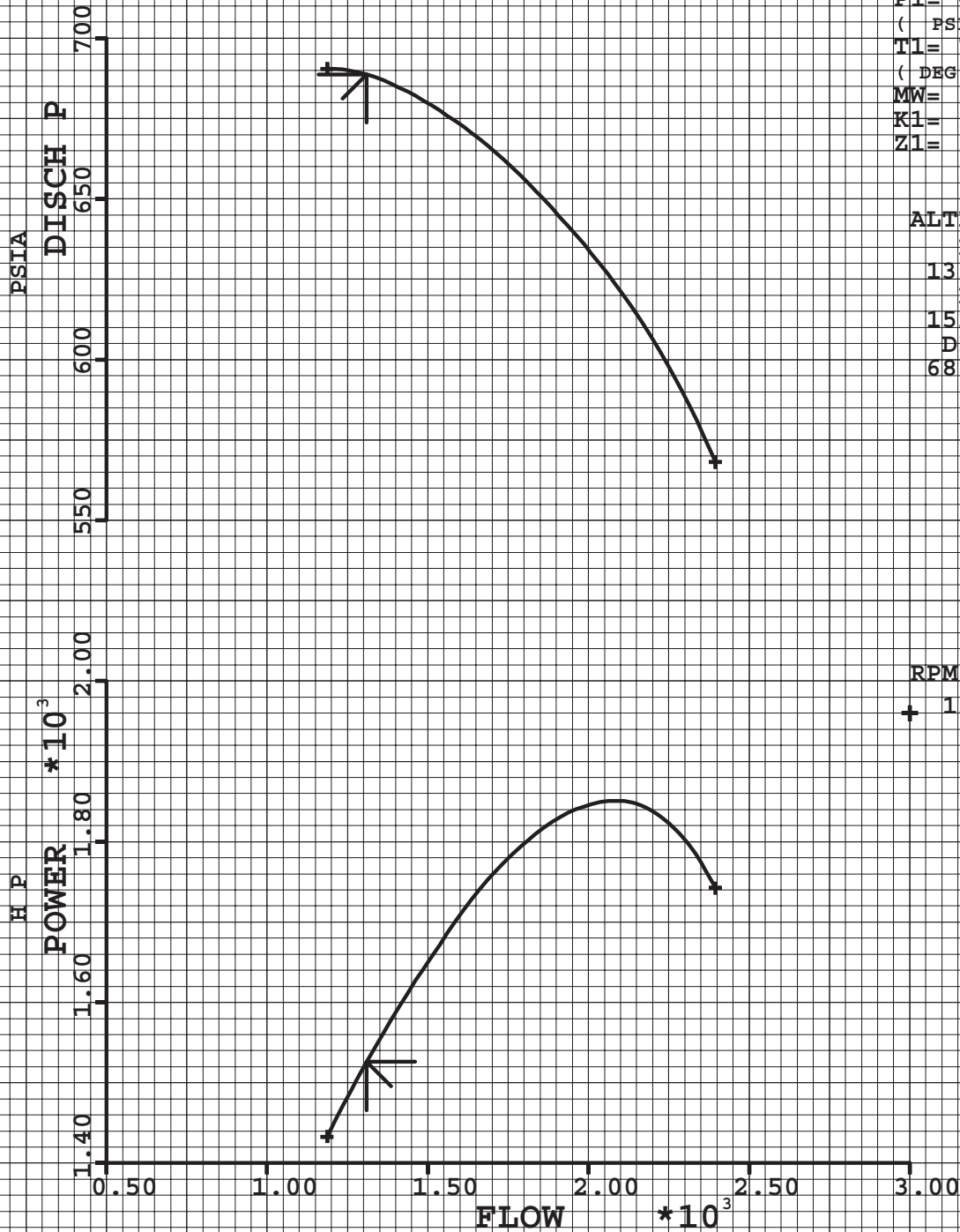
ELLIOTT MODEL 15MB3

ELLIOTT QUOTE H10-606-043

CONDITIONS

TURNDOWN CASE

P1= 442.00
 (PSIA)
 T1= 77.0
 (DEG. F)
 MW= 19.90
 K1= 1.421
 Z1= 1.000



ALTER. PT
 FLOW
 1310.
 POWER
 1526.
 DISCH P
 688.70

RPM
 + 12036.

C F M

12/09/10
JSO

