

From: Edl, Michele [mailto:Michele.Edl@wr.idaho.gov]
Sent: Monday, February 11, 2008 10:59 AM
To: fpdinformation@flowserve.com
Subject: help with turbine curves

My original request for this information was directed to Ingersoll-Rand. I was given this as a better contact for the information I need.

I am working on forensic water right licenses for a small hydro project. The project has been changed significantly since it was put online so I cannot collect the information I need by field exam.

I need curves for 3 different hydro turbines that would have been purchased before 1986. I have very limited information to work with but they may have been pumps operating as turbines. I have discharge size, kW, total static head for the plant and possible model# for two of three unit.

I am hoping that your archive is capable of generating operation curves this far after the fact. But any information you could provide would be extremely helpful.

1) Ingersoll Rand turbine

Turbine discharge size: 63 (cfs?)

KW: 213

Possible model number: 30 WTA

total head 46 ft

2) Ingersoll Rand turbine

Turbine discharge size: 110 (cfs?)

KW: 394

Possible model number: 40 WTA

Total head 46 ft

3) Byron Jackson turbine

Turbine discharge size: 32 (cfs?)

KW: 112

No model number given

Total head 46 ft.

Getting any additional information on this last one will be a bonus for me.

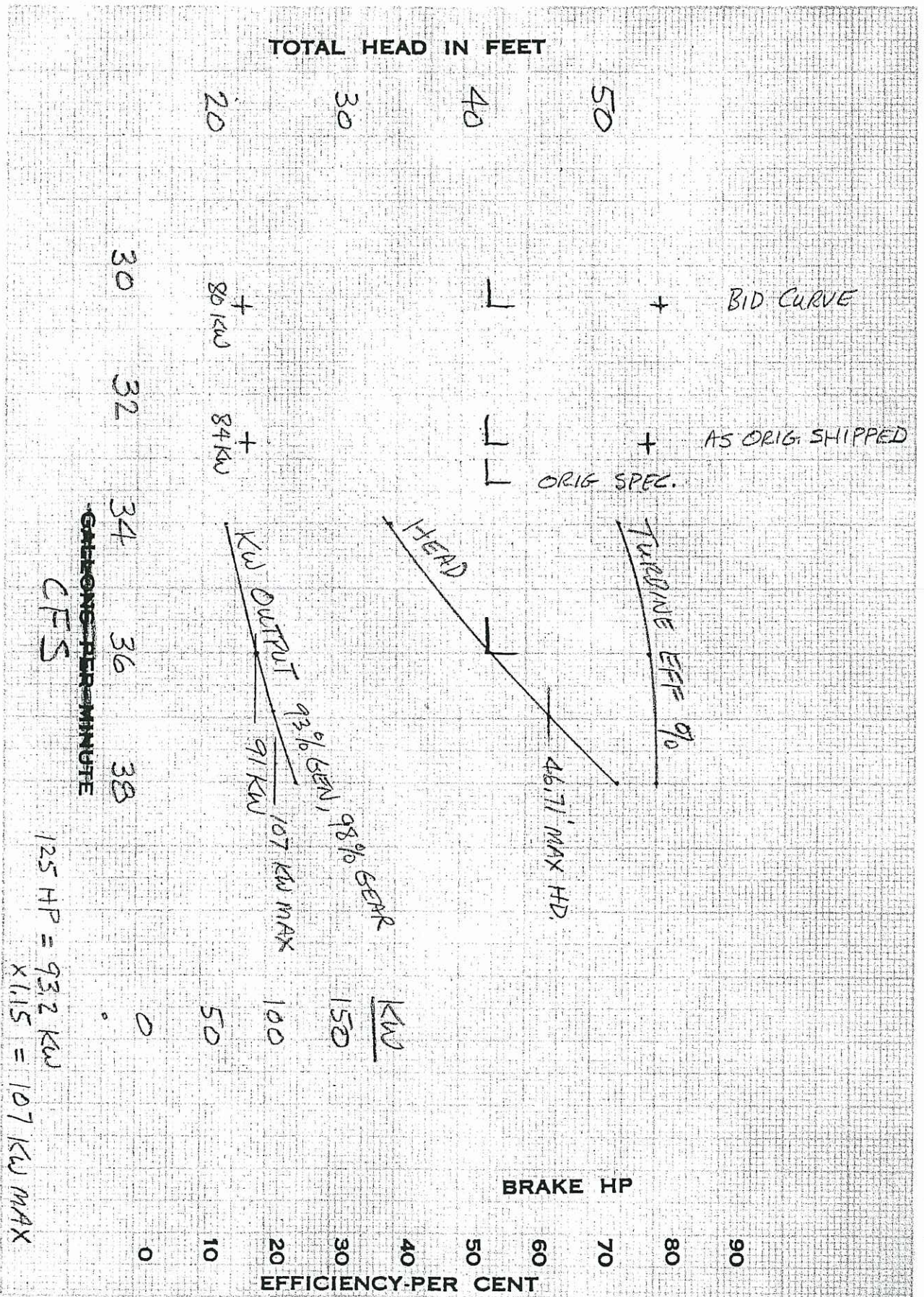
I am not even sure that I am dealing with a Pump As Turbine system.

Westinghouse is mentioned as possible maker for generators on all three units but I have no further.

Thanks
Michele Edl
Associate Engineer
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208-287-4946

8/6/2008

BYRON JACKSON



PUMP SIZE AND TYPE		CUSTOMER NO.		IMPELLER NO.		BASED ON		DATE		BYRON JACKSON NUMBER	
MODEL	8520-7	1STG	RPM	900	R-4112	7-36749	1-17-83	PC	816-W-1435		
TURBINE		G.S.		BRANCH NO.		DATA BY		DRAWN BY			
								KEIN			

POD Ravenscroft approved

Untitled - ArcMap - ArcView

File Edit View Insert Selection Tools Window Help

Process POU POD Wells SC

1:4,515

Layers

- scd:DEFAULT (4028)
- Right POD
- Right POU
- Taxlots
- Township/Range
- Sections
- 1987
- 1992 DOQQ
- V:\Imagery\Aerial\photos
- V:\Imagery\DOQQ
- V:\Imagery\MAP1\100k2C
- V:\Imagery\MAP1\100k2C
- V:\Imagery\MAP1\100k2C
- V:\Imagery\MAP1\100k2C
- 2004

Identity

Identify from: <Top-most layer>

Right POD

37-7857

37-7922

37-7865

Location: 2,433,745.744 1,297,242.336 Meters

Field	Value
SHAPE	Point
WaterRightNumber	37-7857
BasinNumber	37
SequenceNumber	7857
SplitSuffix	
Status	Active
Basin	
PriorityDate	9/25/1980
Decreedate	<null>
OverallMaxDivergenceRate	20

06514E28
NOTE
8WNW

2433749.407 1297239.894 Meters

2433749.407 1297239.894 Meters

12:16 PM