

Edl, Michele

From: BComman@flowserve.com
Sent: Tuesday, June 17, 2008 4:57 AM
To: Edl, Michele
Subject: RE: help with turbine curves
Attachments: Turbine_8520-7_curve_PC816-W-1435.pdf

Michele,

Please refer to the attached curve. It appears from our records that after some field issues, the unit was retrofitted in early 1983, and the curve dated 1-17-83 would represent the current performance.

I hope this provides you with the information you need.

Regards,

Bob Cornman
 Director, Technical Services NA & LA
 Flowserve Pump Division
 942 Memorial Parkway
 Phillipsburg, NJ USA

~~Tel: 908-859-7256~~
~~Fax: 908-859-7482~~

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"Edl, Michele" <Michele.Edl@idwr.idaho.gov>

06/12/2008 03:39 PM

To <BComman@flowserve.com>
 cc
 Subject RE: help with turbine curves

Mr. Cornman,

I have been able to collect a little more information about the turbines in the Ravenscroft hydro project. The Idaho Department of Water Resources is still not finished with them. But I have finally been able to remove some of the impediments to licensing and may have a Byron-Jackson model/serial number with which to query your archives.

The Ravenscroft Ranch project had three turbines. I think all 3 were initially, fixed geometry turbines. You have already supplied me with curves for the two Ingersoll-Rand units. I didn't have enough information in my Feb request for you to find a curve for the Byron-Jackson turbine, but I have come across an equipment description which may be what you need.

A copy of the 1983 power contact describes the facility as:

- (1) I-R 40 VHTA (114 cfs),
- (1) I-R VHTA (63 cfs) and

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(1) B-J 8520-7 (32 cfs) I hope this is the Byron Jackson model number you can work with

If you are no longer the person I should be pestering for legacy equipment curves, please forward this request for me. And is there any significance to the difference in the models identified for the I-R units? This list has VHTA but the field examiner found the nameplates as WTA.

Thanks again,

Michele Edl
Associate Engineer
Water Rights Section
Idaho Department of Water Resources
Boise Idaho
208-287-4946

From: BComman@flowserve.com [mailto:BComman@flowserve.com]
Sent: Thursday, February 14, 2008 11:46 AM
To: Edl, Michele
Subject: Fw: help with turbine curves

Michele,

I am going to be able to provide you with some of the information you are requesting on the water turbines originally supplied by Ingersoll Rand. This legacy equipment is now part of the Flowserve Pump Division.

The 30WTA & 40WTA were supplied from the Flowserve facility in Phillipsburg, New Jersey. At the time the project was referred to as the Ravenscroft Ranch Project. The following is some specific data for each of the WTA machines:

30WTA: original order number 006-36256, turbine serial number 0882101, hydraulic rating: 28,252 gpm, 46 ft, 731 rpm, 213KW, Westinghouse Electric induction generator

40WTA: original order number 006-36256, turbine serial number 0882100, hydraulic rating: 48,022 gpm, 46 ft, 553 rpm, 368KW, Westinghouse Electric induction generator

I am not able to provide any information on the third turbine without a model number or a serial number.

I hope you find this information helpful.

Regards,

Bob Cornman
Director, Technical Services NA & LA
Flowserve Pump Division
942 Memorial Parkway
Phillipsburg, NJ USA

Tel: 908-859-7256
Fax: 908-859-7482

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----- Forwarded by Bob Cornman/North America/Flowserve on 02/14/2008 08:04 AM -----

Bob Cornman/North America/Flowserve

02/14/2008 06:37 AM

To Michele.Edl@idwr.idaho.gov
cc

Subject Fw: help with turbine curves

Michele,

I should be able to provide you with the requested information. Give me until mid next week to look for the information.

Regards,

Bob Cornman
Director, Technical Services NA & LA
Flowserve Pump Division
942 Memorial Parkway
Phillipsburg, NJ USA

Tel: 908-859-7256
Fax: 908-859-7482

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"Nancy Poland" <npoland@tricommtg.com>

02/13/2008 07:54 AM

To <jgoetz@flowserve.com>
cc

Subject FW: help with turbine curves

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