

Unit Design Data

HYDRO OR PUMPED STORAGE (VOLUNTARY REPORTING)

(Note: The NERC Board of Trustees approved the GADS Task Force report (dated July 20, 2011 - <http://www.nerc.com/filez/gadstf.html>) which states that design data collection outside the required nine fields is solely voluntary. However, the GADS staff encourages that reporters report and update GADS design data frequently. This action can be completed by 1) sending in this form or 2) using the design data entry software located at <http://www.nerc.com/page.php?cid=4|43|46>. GADS staff encourages using the software for design entry and updating.)

Instructions

Submit the data in this section once during the life of each pumped storage or hydro unit. If a major change is made to a unit which significantly changes its characteristics, then resubmit this section with updated information.

For coded entries, a (9) is entered to indicate an alternative other than those specified. Whenever a (9) is entered, write the column number and the answer on the reverse side of the form.

If a copy of the original form is being submitted, make sure that it is legible.

Unit name:

Location of unit (State):

Energy Information Administration (EIA) Number:

Regional Entity:

Subregion:

Data reporter:

Telephone number:

Date:

GENERAL DATA

Col. No.

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01 Utility identification number

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04 Unit identification number

5	1
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07 Card code

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09 These columns are blank

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13 Year unit first in service (see page II-1)

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17 Month unit first in service

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19 Day unit first in service

HYDRO TURBINE/PUMP DATA

21 Hydro or Pumped Storage - (1) Hydro; (2) Pump/turbine; (3) Pump

22 Turbine/Pump manufacturer - (0) Allis Chalmers; (1) Pelton; (2) S. Morgan Smith; (3) Newport News; (4) Worthington; (5) Dobie; (6) I.P. Morris; (7) W.S. Morgan; (8) B.L. Hamilton; (9) Other;

23 Turbine/Pump impulse type - (1) Horizontal; (2) Vertical; (9) Other

24 Turbine/Pump reaction type - (1) Francis; (2) Kaplan – adjustable blade propeller; (3) Fix blade propeller; (4) Pump/turbine; (9) Other

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25 Turbine rated head to nearest foot

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29 Turbine rated speed to nearest RPM

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32 Turbine rating in horsepower to nearest 100 hp

38 Turbine runner, type - (1) Single; (2) Twin; (3) Triplex; (4) Double

discharge; (9) Other

39 Number of buckets/blades per runner

41 Governor type - (1) Gate shaft; (2) Actuator; (3) Cabinet type; (4) Electric; (5) Electro hydraulic, speed sensing; (6) Electronic hydraulic, speed sensing; (7) Mechanical, speed sensing; (9) Other

42 Turbine bearing type - (1) Water lubricated; (2) Oil lubricated; (9) Other

43 Thrust bearing location - (1) Above generator; (2) Below generator

44 Guide bearing, location - (1) Above generator; (2) Below generator

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45 Columns 45 through 80 are blank

01 Utility identification number

04 Unit identification number

07 Card code

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09 Columns 9 through 17 are blank

18 Nameplate rating of unit (MVA times power factor)

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22 Columns 22 through 80 are blank

HYDRO TURBINE/PUMP DATA (Continued)

GENERATOR DATA

<input type="text"/> <input type="text"/> <input type="text"/>	01	Utility identification number
<input type="text"/> <input type="text"/> <input type="text"/>	04	Unit identification number
<input type="text" value="5"/> <input type="text" value="3"/>	07	Card code
<input type="text"/> – <input type="text"/>	09	Columns 09 through 13 are blank
<input type="text"/> <input type="text"/>	14	Generator Manufacturer – (See Table of Manufacturers Codes)
<input type="text"/>	16	Generator type - (1) Three-phase, 60 cycle; (2) other
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> , <input type="text"/>	17	Nameplate voltage to nearest one-tenth KV
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	21	Nameplate capability MVA, first shaft
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	25	Speed in RPM, first shaft
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	29	Nameplate capability MVA, second shaft if any
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	33	Speed in RPM, second shaft if any
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	37	Nameplate capability MVA, third shaft in any
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	41	Speed in RPM, third shaft in any
<input type="text"/> <input type="text"/>	45	Nameplate power factor in percent

