Unit Design Data

Diesel (Voluntary Reporting)

(Note: The NERC Board of Trustees approved the *GADS Task Force Report* (dated July 20, 2011)[i], 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 sending in this form to gads@nerc.net. GADS staff encourages using the software for design entry and updating.

Instructions

Submit the data in this section once during the life of each diesel 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.

Utility name: _____

Station name: _____

Unit name: _____

Location of unit (State): _____

Energy Information Administration (EIA) Number: _____

Regional Entity: _____

Subregion: _____

Data reporter: _____

Telephone number: _____

Date: _____

GENERAL DATA	**Col. No.**	
	01	Utility identification number
	04	Unit identification number
4 1	07	Card code
	09	Columns 09 through 12 are blank
	13	Year unit first paralleled for load
	17	Month unit first paralleled for load
	19	Day unit first paralleled for load

DIESEL ENGINE DATA

	21	Diesel engine manufacturer – (1) General Motors; (2) General Electric; (3) Consolidated Diesel Electric; (4) Allis Chalmers; (5) Caterpillar Tractor; (6) Cummins; (7) Fairbanks Morse; (9) Other
	22	Fuel, type – (1) No. 2 fuel oil; (2) Diesel oil; (3) JP 5 fuel; (4) Kerosene; (5) Heavy oil; (9) Other
	23	Cylinders, number per engine
	25	Cycle, type – (1) 2-stroke; (2) 4-stroke; (9) Other
	25	Startup system, type – (1) Automatic, on site; (2) Automatic remote; (9) Other
	27	Time for normal cold start to full load in seconds
	30	Time for emergency cold start to full load in seconds
	33	Coolant, type – (1) Water; (2) Oil; (3) Air; (9) Other
	34	Columns 34 through 80 are blank
	01	Utility identification number

DIESEL ENGINE DATA (Continued)

	04	Unit identification number
4 2	07	Card code
	09	Columns 09 through 80 are blank

GENERATOR DATA

	01	Utility identification number
	04	Unit identification number
4 3	07	Card code
	09	Columns 09 through 13 are blank
	14	Manufacturer – (see table of Manufacturers, page E-123)
	16	Type – (1) Three-phase, 60-cycle; (9) Other
	17	Nameplate voltage to nearest one-tenth KV
	21	Nameplate capability MVA, first shaft
	25	Speed in RPM, first shaft
	29	Nameplate capability MVA, second shaft if any
	33	Speed in RPM, second shaft if any
	37	Nameplate capability MVA, third shaft if any
	41	Speed in RPM, third shaft if any
	45	Nameplate power factor in percent
	47	Cooling medium, stator/rotor – (1) Air/air; (2) Hydrogen/ hydrogen; (3) Oil/hydrogen; (4) Water/hydrogen; (9) Other
	48	Cooling method, stator/rotor – (1) Intercooled/intercooled; (2) Conventional/conventional; (3) Intercooled/conventional; (9) Other
	49	Hydrogen pressure in PSIG at nameplate MVA, if applicable

GENERATOR DATA (Continued)

☐	49	Number of exciters required by the unit for normal operation at rated Output
☐	52	Type normal exciters - (1) Rotating DC generator; (2) Rotating alternator rectifier; (3) Static; (9) Other
☐	53	Type drive for normal exciters, if rotating – (1) Shaft direct; (2) Shaft gear; (3) Motor; (9) Other
☐	54	Number of spare exciters available to the unit
☐	55	Enter (1) if more than 50% of generator is outdoors
	56	Name of Unit (Columns 56-80)

[i] http://www.nerc.com/pa/RAPA/gads/MandatoryGADS/Revised_Final_Draft_GADSTF_Recommendation_Report.pdf)