

Appendix E7: Unit Design Data – Miscellaneous (Voluntary Reporting)

Note: The NERC Board of Trustees approved the *GADS Task Force Report* ([dated July 20, 2011](#))¹, 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

Use these forms when no other forms in this appendix are appropriate. Specifically, use them for multi-boiler/multi-turbine units, combined-cycle units, and geothermal units.

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, enter a (9) to indicate an alternative other than those specified. Whenever you enter a (9), write the column number and the answer on the reverse side of the form.

When submitting an original copy of the form, make sure that it is legible.

Unit Name

Location of Unit (State)

Energy Information Administration
(EIA) Number

Regional Entity

Subregion

Date Reporter

Telephone Number

Date

General Data

	Col No.	Column Information
<hr/>	01	Utility Identification Number
<hr/>	04	Unit Identification Number
<hr/>	07	Card code
<hr/>	09	Columns 09 through 12 are blank
<hr/>	13	Year unit first paralleled for load

¹ http://www.nerc.com/pa/RAPA/gads/MandatoryGADS/Revised_Final_Draft_GADSTF_Recommendation_Report.pdf

17	Month unit first paralleled for load
19	Day unit first paralleled for load
21	Energy source – (1) Fossil (Multi-Boiler – Multi-Turbine); (3) Geothermal; (4) More than one; (9) Other
22	Energy medium – (1) Water and/or steam; (2) Heavy water and/or steam; (3) Liquid metal; (4) Gas; (5) More than one; (6) Direct conversion; (9) Other
23	Enter (1) if header unit
24	Enter (1) if noncondensing steam turbine
25	Columns 25 through 80 are blank

Pollution Control Equipment Data

Col No.	Column Information
01	Utility Identification Number
04	Unit Identification Number
07	Card code
09	Columns 09 through 17 are blank
18	Nameplate MW Rating of the unit

Selective Non-Catalytic Reduction System (SNCR)

Col No.	Column Information
22	SNCR reagent – (1) Ammonia; (2) Urea; (9) Other
23	SNCR injector type – (1) Wall nozzle; (2) Lance; (9) Other
24	SNCR injection equipment location – (1) Furnace; (2) Super-heater; (3) Economizer; (9) Other
25	Number of SNCR injectors
28	SNCR carrier gas type – (1) Steam; (2) Air; (9) Other
29	SNCR carrier gas total flow rate (thousands of lbs./hr.) i.e. 6,000,000 lbs./hr. enter 6000
34	SNCR carrier gas pressure at nozzle (psi)
38	SNCR carrier gas nozzle exit velocity (thousands of ft./sec.)

Selective Catalytic Reduction System (SCR)

Col No.	Column Information
43	SCR reactor – (1) Separate; (2) In Duct
44	SCR reagent – (1) Ammonia; (2) Urea; (9) Other
45	SCR ammonia injection grid location – (1) Furnace; (2) Super-heater; (3) Economizer; (4) Zoned
46	SCR duct configuration – (1) Flow straighteners; (2) Turning vanes; (3) Dampers
47	SCR Catalyst Element Type (1) Plate; (2) Honeycomb; (9) Other
48	SCR catalyst support material – (1) Stainless steel; (2) Carbon steel; (9) Other
49	SCR catalytic material configuration – (1) Vertical; (2) Horizontal; (9) Other
50	SCR catalyst surface face area (thousands of square feet)
55	SCR catalyst volume (thousands of cubic feet)
60	Number of SCR catalytic layers
62	SCR catalytic layer thickness (1/1000 inches)
65	SCR sootblower type – (1) Air; (2) Steam; (3) Both
66	SCR sootblower manufacturer – (see table of Manufacturers Code)

Catalytic Air Heaters (CAH)

Col No.	Column Information
68	CAH element type – (1) Laminar surface; (2) Turbulent surface; (9) Other
69	CAH catalyst material – (1) Titanium oxide; (2) Vanadium pentoxide; (3) Iron (II) oxide; (4) Molybdenum oxide; (9) Other
70	CAH catalyst support material – (1) Stainless steel; (2) Carbon steel; (9) Other
71	CAH catalyst material configuration – (1) Horizontal air shaft; (2) Vertical air shaft
72	CAH catalyst material total face area (thousands of square feet)
75	CAH catalyst material open face area (thousands of square feet)
78	CAH catalyst material layer thickness (1/1000 inches)

General Data		
	Col No.	Column Information
	01	Utility Identification Number
	04	Unit Identification Number
	07	Card code
	09	Columns 09 through 14 are blank
	15	Total nameplate rating in MW
	19	Type electrical output – (1) Three-phase, 60 cycle; (9) other
	20	Columns 20 through 55 are blank
	56	Name of Unit