

## Unit Design Data

### MISCELLANEOUS (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

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 miscellaneous 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:** \_\_\_\_\_

**Data reporter:** \_\_\_\_\_

**Telephone number:** \_\_\_\_\_

**Date:** \_\_\_\_\_

### MISCELLANEOUS

**GENERAL DATA**

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**COL. NO.**

- 01 Utility identification number
- 04 Unit identification number
- 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
- 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**

<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="8"/> <input type="text" value="2"/>	07	Card code
<input type="text" value="B"/>	09	Columns 09 through 17 are blank
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	16	Nameplate MW Rating of the unit

**SELECTIVE NON-CATALYTIC REDUCTION SYSTEM (SNCR)**

<input type="text"/>	22	R reagent - (1) Ammonia; (2) Urea; (9) Other
<input type="text"/>	23	SNCR injector type - (1) Wall nozzle; (2) Lance; (9) Other
<input type="text"/>	21	SNCR injection equipment location - (1) Furnace; (2) Super-heater; (3) Economizer; (9) Other
<input type="text"/> <input type="text"/> <input type="text"/>	25	Number of SNCR injectors
<input type="text"/>	28	SNCR carrier gas type - (1) Steam; (2) Air; (9) Other
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	26	R carrier gas total flow rate (thousands of lbs./hr.) i.e. 6,000,000 lbs./hr. enter 6000
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	33	SNCR carrier gas pressure at nozzle (psi)
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	38	SNCR carrier gas nozzle exit velocity (thousands of ft./sec.)

**SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR)**

<input type="text"/>	43	reactor - (1) Separate; (2) In Duct
<input type="text"/>	41	SCR reagent - (1) Ammonia; (2) Urea; (9) Other
<input type="text"/>	45	SCR ammonia injection grid location - (1) Furnace; (2) Super-heater; (3) Economizer; (4) Zoned
<input type="text"/>	46	SCR duct configuration - (1) Flow straighteners; (2) Turning vanes; (3) Dampers

**SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR) (cont.)**

<input type="checkbox"/>	47	SCR Catalyst Element Type (1) Plate; (2) Honeycomb; (9) Other
<input type="checkbox"/>	47	SCR catalyst support material – (1) Stainless steel; (2) Carbon steel; (9) Other
<input type="checkbox"/>	48	SCR catalytic material configuration – (1) Vertical; (2) Horizontal; (9) Other
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> \ <input type="checkbox"/>	49	SCR catalyst surface face area (thousands of square feet)
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> \ <input type="checkbox"/>	55	SCR catalyst volume (thousands of cubic feet)
<input type="checkbox"/> <input type="checkbox"/>	60	Number of SCR catalytic layers
\ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	62	SCR catalytic layer thickness (1/1000 inches)
<input type="checkbox"/>	64	SCR sootblower type - (1) Air; (2) Steam; (3) Both
<input type="checkbox"/> <input type="checkbox"/>	65	SCR sootblower manufacturer - (see table of Manufacturers – page E-125)

**CATALYTIC AIR HEATERS (CAH)**

<input type="checkbox"/>	67	CAH element type - (1) Laminar surface; (2) Turbulent surface; (9) Other
<input type="checkbox"/>	68	CAH catalyst material - (1) Titanium oxide; (2) Vanadium pentoxide; (3) Iron (II) oxide; (4) Molybdenum oxide; (9) Other
<input type="checkbox"/>	69	CAH catalyst support material - (1) Stainless steel; (2) Carbon steel; 9) Other
<input type="checkbox"/>	71	CAH catalyst material configuration - (1) Horizontal air shaft; (2) Vertical air shaft
<input type="checkbox"/> <input type="checkbox"/> \ <input type="checkbox"/>	72	CAH catalyst material total face area (thousands of square feet)
<input type="checkbox"/> <input type="checkbox"/> \ <input type="checkbox"/>	75	CAH catalyst material open face area (thousands of square feet)
\ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	78	CAH catalyst material layer thickness (1/1000 inches)



