

# NERC

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# Design Data Reporting

## Data Reporting Instructions – Section V

April 2025

Module 04 - GADS Data Reporting Workshops

**RELIABILITY | ACCOUNTABILITY**












- To identify the unit - name, location, type, etc.
- It is needed to analyze event and performance data
- It provides the opportunity to critique past and present
- It allows you to perform many types of generating plant analyses

- There are nine (9) data fields that uniquely identify the unit
- They are used for two specific reasons:
  - They allow GADS data to be matched with information collected in other databases such as the Transmission Availability Data System (TADS)
    - Example: Certain design data fields are needed to allow generating units to be located in areas where transmission lines are located
  - They ensure the continued quality of information collected by GADS by editing event and performance data

1. GADS utility code: assigned by NERC
2. GADS unit code: assigned by the reporting company following the guidelines in Appendix C of the DRI
3. NERC Regional Entity (RE) where the unit is located
4. Name of the unit
5. Commercial operating date
6. Type of generating unit: fossil, combined cycle, et cetera
7. MW size: generator nameplate
8. State or province location of the unit
9. Energy Information Administration (EIA) Plant Number
  - US units only

- Mandatory design data (2024) can be used to further analyze the GADS data
  - By unit configuration, equipment design, redundancy, et cetera
- The mandatory design data are located in Appendix E of the DRI
  - The mandatory design data is equipment specific
  - Data can be uploaded with a template or thru the OATI GUI
  - If you don't know what is being asked for seek out an expert who does
  - Required for most units to report GADS data
  - Required when a unit starts commercial operation
  - Required when a unit's design parameters change
- The forms should be reviewed annually

-  Appendix E: Unit Design Data Forms
-  Appendix E1: Unit Design Data – Fossil Steam
-  Appendix E2: Unit Design Data – Fluidized Bed Combustion
-  Appendix E3: Unit Design Data – Gas Turbine/Jet Engine
-  Appendix E4a: Unit Design Data – Gas Turbine in Combined Cycle/Cogeneration
-  Appendix E4b: Unit Design Data – Steam Turbine in Combined Cycle/Cogeneration
-  Appendix E4c: Unit Design Data – Gas Turbine with HSRG
-  Appendix E5: Unit Design Data – Hydro or Pumped Storage
-  Appendix E6: Unit Design Data – Internal Combustion Unit

- For block reported combined cycle and cogeneration units, the individual components must be created to provide design data. The block component is set to “yes” for block reporting so that event and performance data can be reported for the block.
- For component reported combined cycle and cogeneration units, a block must be created. The block component is set to “No” so that event and performance data can be reported for the individual pieces of the block.
- A new unit type (361) was created for cogeneration units that only have a combustion turbine and HRSG. These units could not be a block as there is no steam turbine.



# Questions and Answers