

# The GADS Process

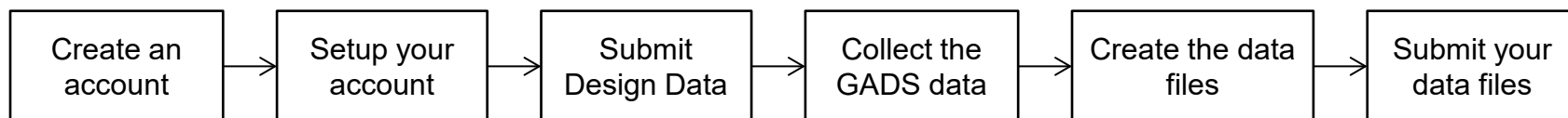
## Data Reporting Instructions (DRI)

April 2025  
Module 12 - GADS Data Reporting Workshops

**RELIABILITY | ACCOUNTABILITY**



- Below is a high level overview of the GADS process



- The basics of each step
  - Create an account - done once in webE-GADS
  - Setup your account - done once then updated as needed/annually for changes in company, unit, or data reporter status in webE-GADS
  - Submit Design Data – when inputting unit data add the design data details for your unit
  - Collect the GADS data - ongoing every day using webE-GADS, commercial GADS software, or custom in-house GADS software
  - Create the data files - ongoing every month/quarter in your GADS software
  - Submit your data files - ongoing every month/quarter in webE-GADS

- To create an account in webE-GADS
  - Setup a webCARES account in the OATI NERC webPortal
    - Complete and send in the “webPortal Registered Entity User Admin Registration Form”
    - Select the NERC product “webE-GADS”
    - NERC will work with OATI to create your account
  - Acquire a digital certificate from OATI
    - Go through your company’s Information Security Officer to get the certificate
    - Install it on your PC
    - Configure it in Internet Explorer - no other browser is compatible

- To setup your account in webE-GADS
  - Fill in the “Functional Entity” contact information for your company
    - If you are the data reporter fill in your contact information
    - If you select your Regional Entity to report your data fill in their contact information
  - Fill in your company information
  - Fill in your unit information
    - You will need to fill in the nine required design data fields for each unit
  - webE-GADS requires that you
    - Validate the data for contact, company, and units annually
    - Update the data for contact, company, and units whenever they change

- To submit the GADS Design data
  - Instructions and Excel templates are available on the NERC web site, under “Generator Availability Data System (GADS)” tab, then the “Data Reporting Instructions” link in the GADS Conventional table at the bottom of the page; then the “Reporting Templates” link.
  - Fill in the required design data fields specific to the type of unit
    - e.g. Combined Cycle, Steam Generation, Hydro, Reciprocating Engine, etc.
  - The demographic data (NCR Number, Region, Utility Code, EIA number, etc.) should be available from your company’s NERC Compliance Team
  - The technical information requested is intended to be something that an operations supervisor can provide with minimal effort. You may need to interview a plant manager or shift supervisor.
  - If a design data detail is changed during the year, this file should be updated at that time.
  - This data is to be reviewed and updated annually. In most years, there will be no changes as the basic configuration does not change

- To collect the GADS data
  - Use a software package like MicroGADS, Open Source GADS, PowerGADS, webE-GADS, or a custom package, to store and validate your GADS data
  - Form the daily habit of reviewing the control room log books for event information to identify the system, component, and cause for each event
    - Make it a work goal to try and complete the event entries for yesterday by COB today in your GADS data collection system to keep the information fresh
    - Mondays, long weekends, holidays, and vacations will require a catch-up effort to bring forward so don't put this task off
    - Don't wait till the end of the month to collect the event data as it will be harder to get and less accurate
  - Identify the SCADA systems or reports that record the performance data
    - Fuels burned, generation, installed capacity
  - Work with your IT department to create software interfaces for the fuel and generation performance data to automate its collection

- The procedure for creating the 05/07 data files for submission to webE-GADS will depend on the software you are using
  - In general your data will have to pass two levels of error checking first
    - Level 1 - front end error checking
      - Validates the event and performance data as you enter it on screen to ensure
        - That you only use approved values for the various codes, et cetera
        - That you enter all the required data fields
    - Level 2 - whole month error checking
      - Validates all of the data you have entered at a higher level to ensure
      - That all of the data balances out month by month
  - Then you have to run the function that creates the 05/07 files
    - Consult your software manual for this information
  - Once created, you may have to manually edit and/or copy the files to
    - Include features that are unsupported by your software such as a dominant derate code
    - Modify events for an ISO GADS filing (ISO GADS is covered in Appendix M)
    - You will have to know the format of the files to edit them

- To submit your data files
  - Login to webE-GADS
  - Go to the Data > Import screen
  - Type in the locations of your 05 and 07 files
  - Press import
  - Deal with any import errors
  - Log out
  - webE-GADS requires time to process your data so wait a few hours
  - Login to webE-GADS again
  - Go to the Checklist screen
  - Validate your data import one quarter at a time
  - Deal with any validation errors
  - When both files are fully validated you are done



- Problem: You have mastered the GADS process and are ready to start entering your data.
- Question: During which step in the GADS process will you need to enter the required design data?
  - A. Step 1 – Create An Account
  - B. Step 2 – Setup Your Account
  - C. Step 3 – Collect The GADS Data
  - D. Step 4 – Create The Data Files
  - E. Step 5 – Submit The Data Files
- Answer: B. Step 2 – Setup Your Account
- Explanation: One part of setting up your account is to setup your units and you will need their required design data to do that

- webE-GADS performs high level checks on the performance data using a factor called the MW Multiplier that can produce warnings you should never ignore. Some typical checks:
  - Gross Maximum Capacity MW  $\leq$  Nameplate Rating \* (1 + MW Multiplier)
  - NAG  $\leq$  ((NMC + 1) \* Service Hours \* (1 + MW Multiplier))
  - If you get one of these warnings there is something seriously wrong with your data

Unit Type Name	MW Mult	Unit Type Code Ranges
Combined Cycle GT units	0.20	300-399, 700-799
Combined Cycle ST units	0.20	100-199, 600-649
CoGeneration GT units	0.20	300-399, 700-799
CoGeneration ST units	0.20	100-199, 600-649
CoGeneration Block	0.10	800-899
Combined Cycle Block	0.15	800-899
Fluidized Bed	0.10	650-699
Fossil-Steam	0.30	100-199, 600-649
Gas Turbine/Jet Engine (Simple Cycle Operation)	0.30	300-399, 700-799
Geothermal	0.10	800-899
Internal Combustion/Reciprocating Engines	0.10	400-499
Miscellaneous	0.10	800-899
Multi-boiler/Multi-turbine	0.10	800-899
Nuclear	0.10	200-299
Pumped Storage/Hydro	0.50	500-599, 900-999



# Questions and Answers