

The GADS Process

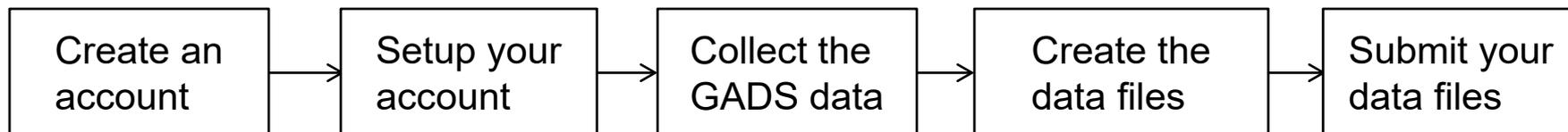
Data Reporting Instructions (DRI)

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
- 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 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