

Supplemental Request – Instructions

2012 Long-Term Reliability Assessment

Please use the following instructions in the completion of the supplemental request data form (ERO2012_LTRA_Supplemental_v3).

SCHEDULE A1 – Confirmed Unit Retirements

- Include unit-level data for all plant retirements since January 2011.
- Include current unit-level data for all confirmed future retirements through 2022.
- For each future retirement, please include any additional known unit- or plant-specific information (*i.e.*, causes for retirement) in the corresponding comments column.
- If confirmed retirements are unable to be included on a per-unit basis due to confidentiality, include the aggregated retirements as a single line for each year (include an explanation in the comment section).

SCHEDULE A2 – Projected Retirements – Cumulative

- Aggregate total capacity values for expected, but unconfirmed unit retirements for each year.
- Retirement projections should be based on reasonable expectations and can leverage existing studies/assessments performed by the Region and/or other organizations.
- Aggregations should not include any known future retirements already included in “Schedule A1 - Confirmed Retirements.”

SCHEDULE B1 – Scheduled Outages (Optional)

General

- Scheduled outage information is only required for Gas, Coal, and Nuclear units.
- Months included for each season do not align with seasonal assessment periods and have been structured to capture potential off-peak issues during the shoulder months.

PART 1: Scheduled Outages – Cumulative

- Include the total amount of unavailable capacity during each season due to scheduled outages.
- For units outages that span multiple seasons, ensure the total unavailable capacity for the specific unit is included in the total for each applicable season.

Example: If a Scheduled Outage for a 100 MW coal plant spans from February to July, 100 MW should be included as unavailable for both the spring and summer seasons.

PART 2: Scheduled Outages – Simultaneous

- Include the maximum amount of capacity simultaneously impacted by scheduled outages during each season. Specifically, the total capacity that will be unavailable at a single point during each season.

SCHEDULE B2 – Retrofit Projections (Optional)

PART 1: Confirmed Scheduled Outages for the Purpose of Retrofitting – Cumulative

- Include the total confirmed number of units and corresponding capacity (MW) that will be on scheduled outage for the purpose of retrofitting during the 10-year assessment period. Each area has different considerations for what is considered a confirmed plan for a unit to be retrofitted. Generally, a plant

that has entered some form of a capital approval process or otherwise announced plans to retrofit a unit should be included.

PART 2: Unconfirmed Scheduled Outages for the Purpose of Retrofitting – Cumulative

- Include the total unconfirmed number of units and corresponding capacity (MW) that will be on scheduled outage for the purpose of retrofitting during the 10-year assessment period. This should include units that will require retrofits due to current and/or pending environmental regulations and rules. Units that must either retrofit or retire to be in compliance should be included.

SCHEDULE C – Gas-Electric

General

- Include all gas-fired units from Schedule 2 of the LTRA Data Form categorized as:
 - Existing-Certain (EC), Existing-Other (EO), Future-Planned (FP), Future-Other (FO), Conceptual (C)
- Summation of the capacity derived in PART 1 and PART 2 should equal the total gas-fired capacity for each year of the assessment period.
- Gas transportation services are considered firm only if an existing firm contract has been signed and in effect for a given year, or there is a high expectation that a firm contract will be signed and in effect for a given year. Gas delivery is considered firm only if the contract indicates that:
 1. Facilities have been designed, installed, and dedicated to a certified quantity.
 2. Delivery is secured from the primary pipeline to the gas burner tip.

PART 1 and 2: Total Gas-Fired Generation with/without Firm Transportation Contracts

- The following method is suggested as an option for determining the MW equivalent of the aggregated firm contracts; however, the area may use any method deemed appropriate for determining output (MW) under firm transportation contracts:
 1. Determine the aggregated amount of firm transportation entitlements (MMBtu/day) in the entire area.
 2. Multiply the (MMBtu/day) by the number of days in the month.
 3. Aggregate the monthly totals to calculate the total firm transportation (MMBtu) in a given year.
 4. Divide annual firm transportation by the weighted average heat rate of the generation system (MMBtu/MW).
 5. Multiple 8,760 hours by the annual system load factor and multiply by the value calculated in Step 4 above.

$$\text{Firm Capacity} = \frac{[\text{Annual Firm Transportation}(\text{MMBtu})]/[\text{Generation Weighted Average Heat Rate} \left(\frac{\text{MMBtu}}{\text{MW}}\right)]}{[(8,760 \text{ Hours})(\text{Load Factor } \%)]}$$

PART 3: Total Gas-Fired Capacity with Dual-Fuel Capability (switchable within approximately 4 hours)

- Include all gas-fired capacity in the assessment area with on-site secondary fuel capability. All units within the assessment area should be considered, regardless of whether or not the plant has firm or non-firm gas transportation contract.