**Quarterly Stability Assessment (QSA) Checklist**

In accordance with Planning Guide Section 5.3.5(4), QSA prerequisites listed below must be met for the large generator to be included in the QSA assessment per the table in Planning Guide 5.3.5(2).

**Deadlines for QSA submission**

|  |  |
| --- | --- |
| Planning Guide 5.3.5 (2): Last day for IE to meet prerequisites as listed in paragraph (4) | 45-Day Deadline |
| Prior August 1 | **June 17** |
| Prior November 1 | **September 17** |
| Prior February 1 | **December 18** |
| Prior May 1 | **March 17** |

All links referenced below can be found on the [Resource Integration](https://www.ercot.com/services/rq/integration) website.

**Completed 45-day requirement and Final QSA requirement checklist must be submitted in RIOO-IS prior to their respective deadlines.**

| **45-Day Requirement** | **File Name** | **Date**  **Submitted** | **Status** |
| --- | --- | --- | --- |
| **Completed and approved FIS** |  |  | Approved |
| Steady state study |  |  | Approved |
| Short circuit study |  |  | Approved |
| Dynamics study |  |  | Approved |
| Facilities study |  |  | Approved |
| **Dynamic Models (PSSE & PSCAD)** \*4 |  |  | Approved |
| PSSE Model |  |  |  |
| PSSE Model Quality Test |  |  |  |
| PSCAD Model (psc or .pscx files are accepted) |  |  |  |
| PSCAD Model Template |  |  |  |
| PSCAD Model Quality Test |  |  |  |
| PSCAD Unit Model Validation Report |  |  |  |
| **TSAT Dynamic Data for UDM**\*4 |  |  | Approved |
| TSAT Dynamic Model Quality Test |  |  |  |

**45 Day Requirement**

**Final QSA Requirements**

| **QSA Requirements** | **File Name** | **Date Submitted** | **Status** |
| --- | --- | --- | --- |
| **Completed and approved FIS** |  |  | Approved |
| Steady state study |  |  | Approved |
| Short circuit study |  |  | Approved |
| Dynamics study |  |  | Approved |
| Facilities study |  |  | Approved |
| Completed and approved reactive study\*1 |  |  | Approved |
| Signed SGIA**\*2** |  |  |  |
| Financial commitment |  |  |  |
| Notice to Proceed |  |  |  |
| Financial Security (upon implementation of PGRR088) |  |  |  |
| RIOO-Create substation details "Planning" commitment level complete? \*3 |  |  |  |
| **Dynamic Models (PSSE & PSCAD)** \*4 |  |  | Approved |
| PSSE Models |  |  |  |
| PSSE Model Quality Test |  |  |  |
| PSCAD Model (psc or .pscx files are accepted) |  |  |  |
| PSCAD Model Template |  |  |  |
| PSCAD Model Quality Test |  |  |  |
| PSCAD Unit Model Validation Report |  |  |  |
| **TSAT Dynamic Data for UDM**\*4 |  |  | Approved |
| TSAT Dynamic Model Quality Test |  |  |  |
| **Collector System Model** |  |  | Approved |
| Collector System Model [(.raw + .seq) OR .OLR files are accepted] |  |  |  |
| Collector System Template  (<https://www.ercot.com/files/docs/2020/06/30/Collector_System_Template.zip>) |  |  |  |
| Air permit from TCEQ (if required) \*5 |  |  | Submitted |
| Greenhouse Gas (if required) \*5 |  |  | Submitted |
| Declaration of water adequacy (if not IRR) |  |  | Approved |

QSA References:

1. Reactive study: The requirements for Reactive Study are detailed in the [Reactive Study Scope](https://www.ercot.com/files/docs/2020/04/15/Reactive_Study_Guide_v10_April2020.docx).
2. Standard Interconnection Agreement (SGIA): The SGIA must be signed, executed and submitted in RIOO-IS for the project to meet Planning Guide 6.9. The model and rating should match the Resource Registration Data and FIS studies. If there are modifications to the original SGIA and the SGIA cannot be amended by the QSA deadline then the TSP needs to confirm in writing that the SGIA will be executed shortly after QSA.
3. RIOO-IS Planning Level Data: Refer to [Entering Resource Registration Data in RIOO-IS](https://www.ercot.com/files/docs/2023/01/04/RIOO%20Processes%20with%20RIOO-Create.docx) for guidance on how to enter Recourse Registration data in RIOO-IS
4. Dynamic Models: Refer to [Model Quality Guide](https://www.ercot.com/files/docs/2021/04/20/Model_Quality_Guide.zip), [DWG Procedure Manual](https://www.ercot.com/committees/ros/dwg) and [Dynamic Model Template](https://www.ercot.com/files/docs/2021/12/15/Dynamic_Model_Templates.zip) to assist with stability model submission requirements per Planning Guides Section 6.2.
   * Conventional and Combined Cycle Resources can EITHER provide the SUBSYNC mass and spring constant data in the RARF OR the PSCAD model plus checklist and MQT Report.
5. Air Permit and Greenhouse gas should be confirmed in RIOO-IS.
6. Additional Guides:
   * [Managing Your INR as an IE/RE in RIOO-IS](https://www.ercot.com/files/docs/2022/01/14/Managing-Your-INR-as-an-IE-or-RE.pdf)
   * [Resource Registration Glossary](https://www.ercot.com/mktrules/guides/resourcereg)