

PJM Generation Operational Testing

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Operating Committee
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- Purpose of testing is to better ensure resources are capable of operating when needed for reliability
- All Generation Capacity Resources committed in RPM or a FRR Plan are subject to testing except variable resources
- PJM can initiate up to two operational tests per season for relevant Delivery Year
 - Summer (May-October)
 - Winter (November-April)



- Considerations for resource selection
 - Time since last operation
 - Operational issues (frequent outages or derates)
 - Failures to start or operate within resource schedule parameters
- PJM will select a schedule for testing based on the available schedule(s) in Markets Gateway
- No requirement for PJM to test all resources in a season or Delivery Year



- PJM will inform a resource that a Generation Operational Test is being initiated in real-time via phone call without advance notice
- PJM will communicate the schedule the resource will be tested on
- Resources undergoing initial Generation Operational Tests will be eligible for make whole (in accordance with OATT, Attachment K-Appendix, section 3.2.3(e)), reserves, and to set LMP



- Time to Start (Notification Time + Applicable Start-Up Time) and Minimum Run Time parameters for the selected schedule will be used for evaluation purposes
- Resource must meet all criteria below for a successful test
 - Time from resource commitment to unit breaker close <=
 [(Notification Time + Start Up Time) + greater of (10 min or 0.1*(Notification Time + Start Up Time)]
 - 2. Resource must operate for at least the Minimum Run Time
- No penalty for failure of an initial test



- Resources that fail an initial Generation Operational Test may be re-tested within the same season
- Re-tests are considered to be part of the same initial operational test and do NOT count as a second test for the relevant season
- Re-tests will NOT be eligible for make whole, but will be eligible for reserves and to set LMP



- A Resource that fails a re-test and does NOT start and synchronize to the grid during the same day of the re-test shall be assessed a daily Generation Capacity Resource Operational Test Failure Charge
- Charge shall be assessed on the date of the failed re-test and end on the date the resource successfully starts and synchronizes to the grid. Resource is **NOT** required to meet the test evaluation criteria to stop the charge.
- Generation Capacity Resource Operational Test Failure Charge details in PJM Manual M-18 Sections 8 and 9



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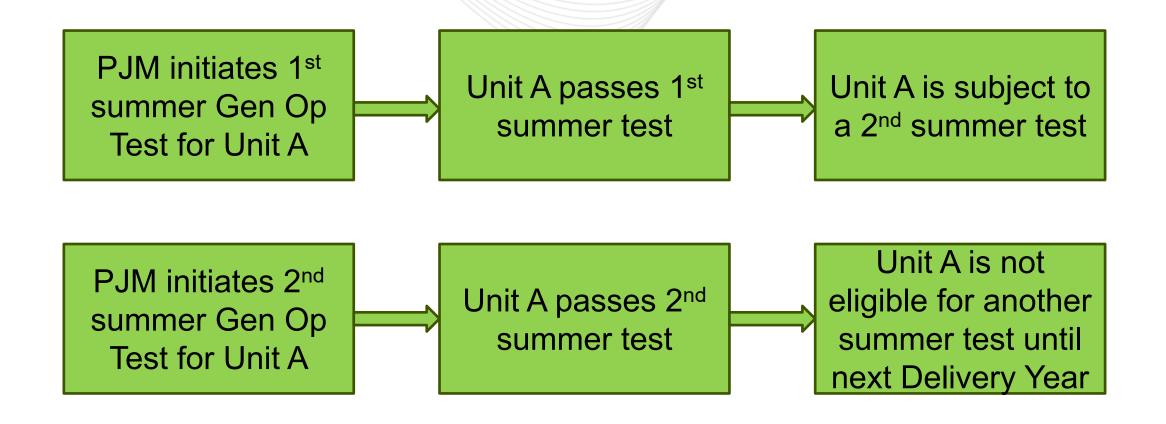




Gen Op Test Examples

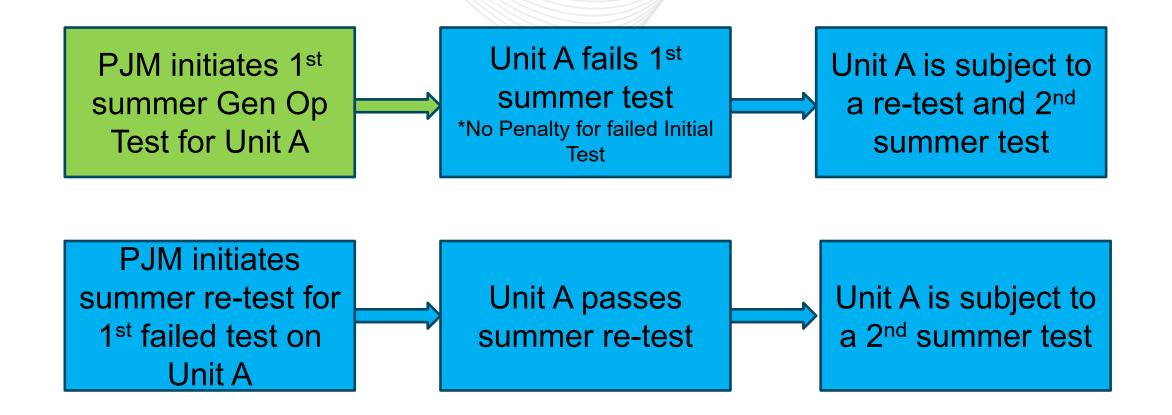


Example 1 – Successful Tests





Example 2 – Failed Initial Test & Successful Re-test





Example 3 – Failed Initial Test & Re-test

Unit A fails 1st summer test PJM initiates 1st summer Unit A is subject to a re-test and 2nd summer test Gen Op Test for Unit A *No Penalty for failed Initial Test Unit A fails summer re-test PJM initiates summer re-Unit A is subject to another test for 1st failed test on *Test Failure Charge assessed if unit re-test and 2nd summer test does not synchronize to grid on same Unit A day Unit A passes 2nd summer PJM initiates 2nd summer Unit A is subject to 2nd re-test for 1st failed test on re-test for 1st failed test on summer test Unit A Unit A