

## GIDAP Cluster Process

Updated October 31, 2016

(Tariff Appendix DD Section number references shown in bold italics)

*Applicable portions copied into meeting minutes. All MW references in document denote "Requested net MW at POI".*

### **Receive IR and all of the following April 1-30 each year (3.5.1)**

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- IR
- Study Deposit (\$150K)
- Site Exclusivity or deposit in lieu of (\$100,000 small-20 MW or less/\$250,000 large-greater than 20 MW)

### **Validation (3.5.2, Attachment A to Appendix 4)**

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- Within **3 BD** of IR receipt, –IR package provided to ISO and PTO (and Affected PTO if applicable) engineers and project managers.
- Within **10 BD** of receipt, notify customer of deemed complete and valid, or deficient. **(3.5.2.1)**
- Deficiencies must be cleared no later than **20 BD** after close of cluster window or **10 BD** after CAISO first provides deficiency notification, whichever is later. If not cured, the project is not included in cluster. **(3.5.2.2)**
- Within **30 CD** of close of cluster window provide IC that has valid IR, a pro forma Generator Interconnection Study Process Agreement. **(6.1.1)**

### **Scoping Meeting (6.1.2)**

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- Within **5 BD** of IR being deemed complete, the CAISO shall set date for Scoping Meeting. **(6.1.2)**
- Scoping Meeting to occur no later than **60 CD** after close of Cluster Window. **(6.1.2)**
- Within **3 BD** of Scoping Meeting – IC must confirm or identify Point of Interconnection (POI). **(6.1.1)**
- Within **10 BD** of receipt of POI confirmation- CAISO provides the Interconnection Customer a signed Large Generator Interconnection Study Process Agreement. **(6.1.1)**
- **30 CD** - IC executes the Large Generator Interconnection Study Process Agreement and deliver to the CAISO no later than thirty (30) calendar days after the Scoping Meeting. **(6.1.1)**

### **Phase I Interconnection Study (6.6)**

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- **170 CD**– Study completed and report issued to IC. Date calculated from study start date.

### **Phase I Interconnection Study Results Meeting (6.7)**

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- Within **30 CD** of providing Phase I Interconnection Study report to IC. **(6.7)**
- IC written comments within **10 BD** of receipt of report, but in no case later than **3 BD** prior to results meeting. **(6.7)**
- IC to provide the following at the results meeting and in Appendix B form **(6.7.1)**:
  - Environmental survey start date
  - Expected procurement date of project equipment
  - Back feed date for project construction
  - Project construction date
  - Proposed new COD due to major IC Interconnection Facilities for the Generating Facility (if identified in Phase I)
- Within **10 BD** of results meeting IC may submit modifications for approval to any information provided in the Interconnection Request and completed form of Appendix B (confirm deliverability status and election of Option A or Option B). See **Option A and Option B Summary** later in this document for election considerations **(6.7.2.2; 7; 7.2)**  
Appendix B Form: [Appendix B to Generator Interconnection Study Process Agreement](#)

### Initial Posting of Interconnection Financial Security (11.2)

Link to PTO financial security instruments information on ISO Website:

<http://www.caiso.com/planning/Pages/GeneratorInterconnection/InterconnectionStudy/Default.aspx> (under *Interconnection study forms, Participating Transmission Owner Financial Security Instruments* heading)

- Initial Posting of Financial Security - **DUE NO LATER THAN Month DD, YYYY**
  - Preliminary posting amounts based on Phase I report:  
**NU: \$ [REDACTED] IF: \$ [REDACTED].**  
 Notification of final posting amounts to be distributed via email within 30 CDs of the posting due date.
  - **Due to PTO** on or before 90 CD after publication of final Phase I Interconnection Study report **with notice to CAISO.**
  - Notification of calculated IFS amounts to be sent by ISO to IC via email.
  - Two separate instruments required – one for Network Upgrades, one for Interconnection Facilities.
- Small (<=20 MW)
  - Interconnection Facilities (IF) (11.2.4.1; 11.2.5):  
 Lesser of actual costs or (min of (.15 \* IF costs) or (\$20k\*MWs), no less than \$50k)
  - Network Upgrades (NU) (Based on Deliverability and choice of Option A/B):

| Deliv.        | Option A or B | Posting Type    | Ph I Posting Amount  | Ph I Tariff Ref         |
|---------------|---------------|-----------------|--|-------------------------|
| EO            | n/a           | RNU             | Lesser of actual costs or (min of (.15 * RNU) or (\$20k*MWs), No less than \$50k).                 | 11.2.3.1-part 1, 11.2.5 |
| FC or Partial | A             | RNU, LDNU       | Lesser of actual costs or (min of (.15 * (RNU+ LDNU) or (\$20k*MWs)), No less than \$50k).         | 11.2.3.1-part 2, 11.2.5 |
|               | B             | RNU, LDNU, ADNU | Lesser of actual costs or (min of (.15 * (RNU + LDNU+ADNU) or (\$20k * MWs)), No less than \$50k). | 11.2.3.1-part 3, 11.2.5 |

- Large (>20 MW)
  - Interconnection Facilities (IF) (11.2.4.2; 11.2.5):
  - Lesser of actual costs or (min of (.15 \* IF costs) or (\$20k\*MWs) or \$7.5M, no less than \$500k)
  - Network Upgrades (NU) (Based on Deliverability and choice of Option A/B):

| Deliv.        | Option A or B | Posting Type    | Ph I Posting Amount   | Ph I Tariff Ref         |
|---------------|---------------|-----------------|---|-------------------------|
| EO            | n/a           | RNU             | Lesser of actual costs or (min of (.15 * RNU) or (\$20k*MWs) or \$7.5M, no less than \$500k).                 | 11.2.3.2-part 1, 11.2.5 |
| FC or Partial | A             | RNU, LDNU       | Lesser of actual costs or (min of (.15 * (RNU + LDNU)) or (\$20k*MWs) or \$7.5M, no less than \$500k).        | 11.2.3.2-part 2, 11.2.5 |
|               | B             | RNU, LDNU, ADNU | Lesser of actual costs or (min of (.15 * (RNU + LDNU + ADNU) or (\$20k*MWs) or \$7.5M), no less than \$500k). | 11.2.3.2-part 3, 11.2.5 |

### Annual Reassessment Prior to Phase II Interconnection Studies (7.4)

- Results provided to impacted projects beginning of August prior to Phase II study.

### TP Deliverability Affidavit (8.9.2)

- Due mid-November first year before receipt of Phase II study results.
- If deliverability parked, due again mid-November of following year.
- Annual market notice provides due date and links to affidavit templates.

### Annual Generator Downsizing Process (7.5)

- Application window October 15 through November 15 every year.

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### Phase II Interconnection Study (8.5)

- Commence study by May 1st of each year. Complete by November 22nd of each year.
- **205 CD** – Phase II Interconnection Study report issued to IC. Date calculated from study start date.

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### Phase II Interconnection Study Results Meeting (8.7)

- Within **30 CD** of providing Phase II Interconnection Study report to IC.
- IC written comments within **10 BD** of receipt of report, but in no case later than **3 BD** prior to results meeting.

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### TP Deliverability Allocation (8.9)

- Completed following the Phase II Study.
- Allocation results communicated to IC.
- IC will have **7 CD** to inform ISO of its decision. **(8.9.8)**
- Refer to attached *Option A and Option B Summary*.
- Affidavit showing continued eligibility due annually to ISO. IC must return within **30 CD** of receipt from ISO. **(8.9.2)**
- ISO issues updates to Phase II Interconnection Study report if Network Upgrades are impacted by ICs' allocation decisions. **(8.9.8)**

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### Second Posting of Interconnection Financial Security (10.1, 11.3.1)

Link to PTO financial security instruments information on ISO Website:

<http://www.caiso.com/planning/Pages/GeneratorInterconnection/InterconnectionStudy/Default.aspx> (under *Interconnection study forms, Participating Transmission Owner Financial Security Instruments* heading)

- Second Posting of Financial Security - **DUE NO LATER THAN Month DD, YYYY**
  - **Preliminary posting amounts based on Phase II report:**  
NU: \$ [REDACTED] IF: \$ [REDACTED].  
Notification of final posting amounts to be distributed via email within two weeks following the Deliverability Allocation Customer Options form due date.
  - **Due to PTO** on or before 180 CD after publication of final Phase II Interconnection Study report **with notice to CAISO**.
  - Notification of calculated IFS amounts to be sent by ISO to IC via email.
  - Two separate instruments required – one for Network Upgrades, one for Interconnection Facilities.
- Stand Alone Network Upgrades (SANUs) **(11.3.1.4.4)**
  - ICs must post applicable posting amounts for all SANUs in the initial and second IFS postings, regardless of an ICs desire to self-build.
  - Upon approval and execution of a GIA allowing the IC to build a SANU, the IC's maximum cost responsibility will be reduced by the cost of the SANU as documented in the GIA. The IC's second posting shall be revised accordingly.
  - Should construction responsibility for the SANU later revert to the PTO, the IC must revise its IFS accordingly within 30 CDs. Failure to timely adjust the posting will result in the withdrawal of the IR.

- Small (<=20 MW)
  - Interconnection Facilities (IF) **(11.3.1.3, 11.3.1.5.1;11.3.1.5.3)**:  
 Lesser of actual Ph II costs or (min (\$1M or (.30 \* IF costs)), no less than \$100k)
  - Network Upgrades (NU) (Based on Deliverability and choice of Option A/B):

| Deliv.        | Option A or B | Posting Type    | Ph II Posting Amount  | Ph II Tariff Ref                   |
|---------------|---------------|-----------------|---|------------------------------------|
| EO            | n/a           | RNU             | Lesser of Ph II actual costs or (min \$1M or (.30 * min (Ph I or Ph II RNU))), no less than \$100k).  | 11.3.1.4.1-part 1, 11.3.1.4.3, 7.3 |
| FC or Partial | A             | RNU, LDNU       | Lesser of Ph II actual costs or (min \$1M or (.30 * min (Ph I or Ph II (RNU + LDNU))), no less than \$100k).  | 11.3.1.4.1-part 2, 11.3.1.4.3, 7.3 |
|               | B             | RNU, LDNU, ADNU | Pre-Allocation: Lesser of Ph II actual costs or (min \$1M or (.30 * min (Ph I or Ph II (RNU + LDNU)) + (.30 * Ph II ADNU))), no less than \$100k). Use Ph I costs if Total Ph I cost < Total Ph II cost.<br><br>Allocation impacts ADNU above: If full TP Deliv., ADNU cost = \$0. If partial TP Deliv., IC posts pro rata costs for MW portion not allocated. E.g., a 20 MW project allocated 15 MW: IC posts 5/20 * costs calculated above. | 11.3.1.4.1-part 3, 11.3.1.4.3, 7.3 |

- Large (>20 MW)
  - Interconnection Facilities (IF) **(11.3.1.3, 11.3.1.5.2;11.3.1.5.3)**:  
 Lesser of Ph II actual costs or (min (\$15M or (.30 \* IF costs)), no less than \$500k)
  - Network Upgrades (NU) (Based on Deliverability and choice of Option A/B):

| Deliv.        | Option A or B | Posting Type    | Ph II Posting Amount   | Ph II Tariff Ref                   |
|---------------|---------------|-----------------|--|------------------------------------|
| EO            | n/a           | RNU             | Lesser of Ph II actual costs or (min \$15M or (.30 * min (Ph I or Ph II RNU))), no less than \$500k).  | 11.3.1.4.2-part 1, 11.3.1.4.3, 7.3 |
| FC or Partial | A             | RNU, LDNU       | Lesser of Ph II actual costs or (min \$15M or (.30 * min (Ph I or Ph II (RNU + LDNU))), no less than \$500k).  | 11.3.1.4.2-part 2, 11.3.1.4.3, 7.3 |
|               | B             | RNU, LDNU, ADNU | Pre-Allocation: Lesser of Ph II actual costs or (min \$15M or (.30 * min (Ph I or Ph II (RNU + LDNU)) + (.30 * Ph II ADNU))), no less than \$500k). Use Ph I costs if Total Ph I cost < Total Ph II cost.<br><br>Allocation impacts ADNU above: If full TP Deliv., ADNU cost = \$0. If partial TP Deliv., IC posts pro rata costs for MW portion not allocated. E.g., a 100 MW project is allocated 40 MW: IC posts 60/100 * costs calculated above. | 11.3.1.4.2-part 3, 11.3.1.4.3, 7.3 |

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**Generator Interconnection Agreement (GIA) (13)**

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- Draft GIA and appendices to be provided by PTO to IC and CAISO no later than the sum of (i) 180 CD plus estimated time to construct IFs and NUs by this project and any other dependent project prior to the In-Service Date.
- Applicable PTO shall tender the draft GIA any time after the Phase II Study Report is issued and before the determined tender date on its own accord or at the request of the CAISO or the IC.
- Negotiations to be completed within 120 CD of GIA tendering, subject to Section 13.2 of GIDAP.
- Final GIA due to IC for execution within 10 BD after completion of negotiation process and receipt of all requested information.

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**TP Deliverability Retention Affidavit (8.9.2)**

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- Due mid-November first year after accepting TP Deliverability allocation.
- To retain any accepted TP Deliverability, must execute GIA per Tariff guidelines before retention affidavit due.
- Annual market notice provides due date and links to affidavit templates.

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**Third Posting of Interconnection Financial Security (11.3.2)**

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On or before the start of Construction Activities for Network Upgrades or PTO's Interconnection Facilities on behalf of the Interconnection Customer, whichever is earlier, the Interconnection Customer shall modify the two separate Interconnection Financial Security instruments so that they equal 100% of the total cost responsibility assigned to the Interconnection Customer.

**TP Deliverability Option A and Option B Summary**

| <b>Option A</b>  | <b>Option B</b>   |
|--|---|
| <ul style="list-style-type: none"> <li>Project requires <b>Transmission Plan Deliverability</b> (TPD), cannot move forward without it</li> </ul>   | <ul style="list-style-type: none"> <li>IC willing to fund ADNUs, reimbursed through <b>Congestion Revenue Rights</b> (CRRs)</li> </ul>  |
| <ul style="list-style-type: none"> <li>Initial <b>Network Upgrade</b> (NU) security posting: posts for <b>Reliability Network Upgrades</b> (RNU) and Local Deliverability Network Upgrades (LDNU), and no posting for <b>Area Deliverability Network Upgrades</b> (ADNU)</li> </ul>  | <ul style="list-style-type: none"> <li>Initial NU security posting: posts for RNUs, LDNUs and ADNUs</li> </ul>  |
| <ul style="list-style-type: none"> <li>Phase II study will not identify any ADNU costs for Option A projects</li> </ul>  | <ul style="list-style-type: none"> <li>Phase II study will identify ADNU costs for Option B projects</li> </ul>   |
| <ul style="list-style-type: none"> <li>RNU and LDNU cost cap = min(Phase I NU cost, Phase II NU cost)</li> </ul>   | <ul style="list-style-type: none"> <li>RNU and LDNU cost cap = min(Phase I RNU+LDNU cost, Phase II RNU+LDNU cost)</li> </ul>  |
| <ul style="list-style-type: none"> <li>If project does not meet the minimum affidavit requirements to receive a TPD allocation following the Phase II study, the <b>Interconnection Customer</b> (IC) will:               <ul style="list-style-type: none"> <li>Change to Energy Only (EO), <b>or</b></li> <li>Park for one year, <b>or</b></li> <li>Withdraw</li> </ul> </li> </ul>  | <ul style="list-style-type: none"> <li>If project does not meet the minimum affidavit requirements to receive a TPD allocation, the IC must change to EO or withdraw the project.</li> </ul>  |
| <ul style="list-style-type: none"> <li>If not allocated TPD following Phase II study, the <b>Interconnection Customer</b> (IC) can:               <ul style="list-style-type: none"> <li>Change to <b>Energy Only</b> (EO)</li> <li>Park for one year</li> <li>Withdraw</li> </ul> </li> </ul>   | <ul style="list-style-type: none"> <li>If not allocated TPD following Phase II study, the IC can:               <ul style="list-style-type: none"> <li>Continue to fund ADNUs, ADNUs and LDNUs reimbursed through CRRs</li> <li>Withdraw</li> </ul> </li> </ul>   |
| <ul style="list-style-type: none"> <li>If allocated partial TPD following Phase II study, the IC can:               <ul style="list-style-type: none"> <li>Accept partial allocation and change balance to EO, the project will have <b>Partial Capacity Deliverability Status</b> (PCDS)</li> <li>Accept partial allocation and downsize to allocated MW amount</li> <li>Accept partial allocation and park remaining MWs</li> <li>Reject allocation and park entire project for one year</li> <li>Change entire project to EO</li> <li>Withdraw</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>If allocated partial TPD following Phase II study, the IC can:               <ul style="list-style-type: none"> <li>Accept partial allocation and change balance to EO, the project has PCDS, no ADNU costs, and LDNUs receive cash reimbursement</li> <li>Accept partial allocation and downsize to allocated MW amount, no ADNU costs, and LDNUs receive cash reimbursement</li> <li>Accept partial allocation and fund ADNUs for the non-allocated MWs, LDNUs for non-allocated portion reimbursed through CRRs. LDNU for allocated portion receive cash reimbursement</li> <li>Reject allocation and fund assigned ADNU and LDNU costs. ADNUs and LDNUs are reimbursed through CRRs</li> <li>Withdraw</li> </ul> </li> </ul> |
| <ul style="list-style-type: none"> <li>If allocated full TPD following Phase II study, the IC can:               <ul style="list-style-type: none"> <li>Accept full allocation and move forward</li> <li>Accept portion of allocation and park the rejected MWs for one year</li> <li>Reject full allocation and park for one year</li> <li>Reject full allocation and change to EO</li> <li>Withdraw</li> </ul> </li> </ul>   | <ul style="list-style-type: none"> <li>If allocated full TPD following Phase II study, the IC can:               <ul style="list-style-type: none"> <li>Accept full allocation and move forward, no ADNUs, LDNUs receive cash reimbursement</li> <li>Reject full allocation and fund assigned ADNU and LDNU costs. ADNUs and LDNUs are reimbursed through CRRs</li> <li>Withdraw</li> </ul> </li> </ul>   |
| <ul style="list-style-type: none"> <li>If parking entire project for one year, second security posting due date is extended by 12 months</li> </ul>  | <ul style="list-style-type: none"> <li>Cannot Park</li> </ul>   |

| <b>Option A</b>   | <b>Option B</b>   |
|---|---|
| <ul style="list-style-type: none"> <li>If parking a portion of the project for one year, second security posting due date for the parked portion is extended by 12 months</li> </ul>                                    | <ul style="list-style-type: none"> <li>Cannot Park</li> </ul>   |
| <ul style="list-style-type: none"> <li>If changing to EO or PCDS, LDNU cost in Phase II final report is reduced to zero or proportionally based on the Phase II final report for the second security posting</li> </ul> | <ul style="list-style-type: none"> <li>If changing to EO or PCDS, LDNU cost in Phase II final report is reduced to zero or proportionally for the second security posting.</li> </ul> |
| <ul style="list-style-type: none"> <li>IC will receive cash reimbursement for RNUs up to \$60K/MW</li> </ul>  | <ul style="list-style-type: none"> <li>Cash reimbursement for RNUs up to \$60K/MW</li> </ul>  |
| <ul style="list-style-type: none"> <li>IC will receive cash reimbursement for 100% of LDNU costs</li> </ul>   | <ul style="list-style-type: none"> <li>IC will receive cash reimbursement for LDNU for allocated portion only</li> </ul>  |

**Interconnection *Study Deposit***  
**Refund Availability upon Interconnection Request Withdrawal**  
**(3.5.1.1)**

| <b>Point of Withdrawal</b>   | <b>Refund</b>  |
|--|--|
| On or before 30 days following the Scoping Meeting   | 100% of unused portion of Study Deposit  |
| 31 days following the Scoping Meeting but on or before 30 days following the Phase I Results Meeting | Lesser between deposit less the greater of: <ul style="list-style-type: none"> <li>• Costs incurred, or</li> <li>• One-half the original study deposit up to a maximum of \$100,000</li> </ul> |
| 31 days following the Phase I Results Meeting  | No refund without executed GIA. Unused deposit refunded with interest if withdrawn after GIA execution.  |

**Interconnection Financial Security for *Network Upgrades***  
**Refund Availability upon Interconnection Request Withdrawal**  
**or Termination of GIA**  
**(11.4.1; 11.4.2)**

| <b>Point of Withdrawal</b>   | <b>Refund</b>  |
|--|--|
| Up to 180 days following issuance of Phase II Study <b>AND</b> : <ul style="list-style-type: none"> <li>• Failure to Secure a Power Purchase Agreement</li> <li>• Failure to Secure a Necessary Permit</li> <li>• Increase in Cost of Participating TO's Interconnection Facilities</li> <li>• Material Change in Interconnection Customer Interconnection Facilities Created by CAISO Change in the Point of Interconnection</li> <li>• Option A project not allocated TP Deliverability and withdraws by second IFS posting deadline</li> <li>• Option B project with ADNU cost estimates increased in Phase II by the lesser of 20% or \$20M</li> </ul>   | Lesser of IFS (plus any other provided security plus any separately provided capital): <ul style="list-style-type: none"> <li>• less all costs and expenses incurred or irrevocably committed,</li> </ul> <b>OR</b> <ul style="list-style-type: none"> <li>• minus the lesser of 50% of posted value or \$10,000/MW</li> </ul> |
| Between 181 days following issuance of Phase II Study and commencement of Construction Activities <b>AND</b> : <ul style="list-style-type: none"> <li>• Failure to Secure a Power Purchase Agreement</li> <li>• Failure to Secure a Necessary Permit</li> <li>• Increase in Cost of Participating TO's Interconnection Facilities</li> <li>• Material Change in Interconnection Customer Interconnection Facilities Created by CAISO Change in the Point of Interconnection</li> <li>• Option A project not allocated TP Deliverability and withdraws by second IFS posting deadline</li> <li>• Option B project with ADNU cost estimates increased in Phase II by the lesser of 20% or \$20M</li> </ul> | Lesser of IFS (plus any other provided security plus any separately provided capital): <ul style="list-style-type: none"> <li>• less all costs and expenses incurred or irrevocably committed,</li> </ul> <b>OR</b> <ul style="list-style-type: none"> <li>• minus the lesser of 50% of posted value or \$20,000/MW</li> </ul> |
| After commencement of Construction Activities  | Posted IFS plus IC provided NU capital, less total cost responsibility for Network Upgrades  |



**Interconnection Financial Security for *Interconnection Facilities*  
Refund Availability upon Interconnection Request Withdrawal  
or Termination of GIA  
(11.4, paragraph 3)**

Release of entire posted amount, except any amounts necessary to pay for costs incurred or irrevocably committed.

Link to the Generator interconnection application process webpage:

<http://www.caiso.com/planning/Pages/GeneratorInterconnection/Default.aspx>