



**Helping our members work together
to keep the lights on...
today & in the future**



Attachment AR

Transmission Service Studies

April 23, 2010

Attachment AR Training Session

- **Screening Studies Introduction**
- **How to request Long Term Service Request (LTSR) Screening Study**
- **How to request Delivery Point Transfer (DPT) Screening Study**
- **DPT and LTSR Process**
- **Next Steps**
- **Summary**
- **Screening Studies Website**

Screening Studies Introduction

- **Aggregate Study Improvement Task Force (ASITF) activities resulted in development of Screening Studies for:**
 - **Delivery Point Transfers**
 - **Long-Term Service Requests**

Screening Studies Benefits

- **DPT** – Enable customers to implement DPT via issuance of a service agreement more expediently
- **LTSR** – Provide customers with a tool to determine which LTSR to pursue
- **Aggregate Studies** – Streamline process by reducing number of requests in studies

Screening Studies: General Steps

1. Customer requests Screening Study
2. SPP responds to request
3. SPP makes confirmation call (if needed)
4. SPP notifies customer of acceptance and study number(s)
5. SPP develops model
6. SPP performs MUST/PSSE analysis

Screening Studies: General Steps

- 7. SPP evaluates results**
- 8. SPP prepares study reports**
- 9. SPP posts results to OASIS**
- 10. Customer performs OASIS maintenance**
- 11. SPP bills and trues-up Customer costs**

How to Request LTSR Screening Study



Step 1: Customer Request

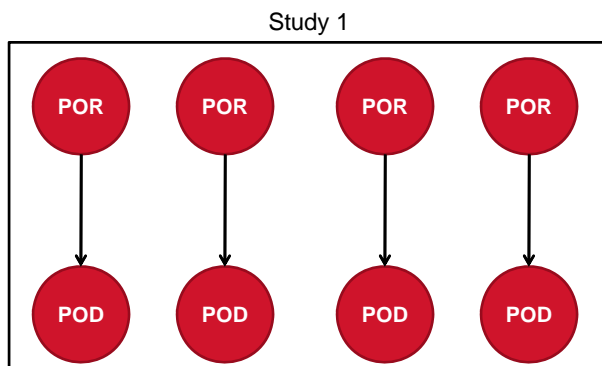
- **Customer enters OASIS request with statement in comment field “For Screening Purposes Only”**
- **Customer emails to LTSR@spp.org:**
 - Executed LTSR Screening Study Agreement
 - Completed NITS application

Step 1: Customer Request

- **Indicate in LTSR Screening Study Agreement**
 - **First choice—study type:**
 - AC or DC
 - **Second choice—study methodology:**
 - Single customer with many requests
 - Multiple customers from same resource
 - Multiple customers from multiple resources
 - **Third choice—results type:**
 - Raw results
 - Written report

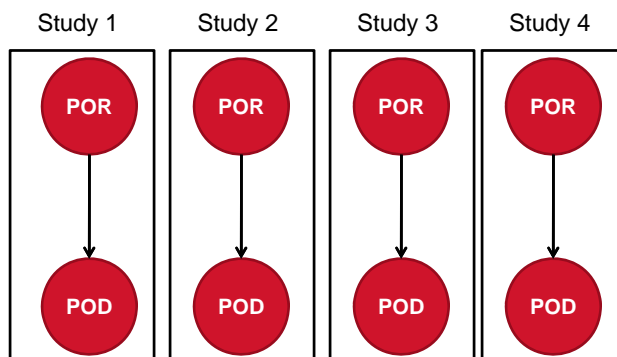
Single Customer with many requests

- **Single study**



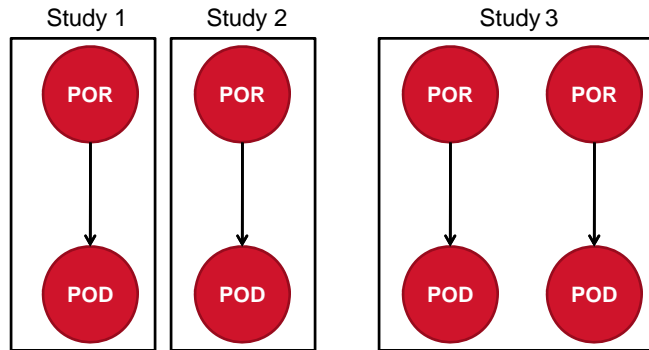
Single Customer with many requests

- **Multiple single studies**



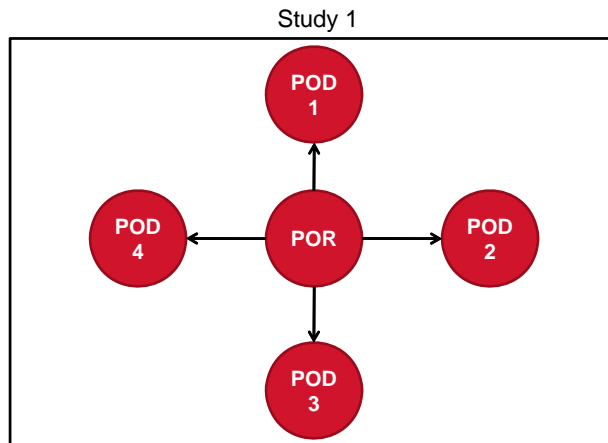
Single Customer with many requests

- **Combination**



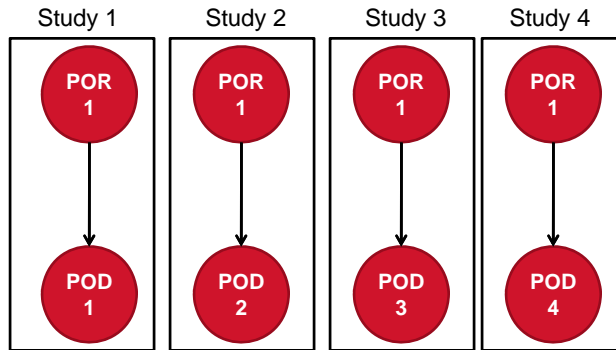
Multiple Customers from same resource

- **Single study**



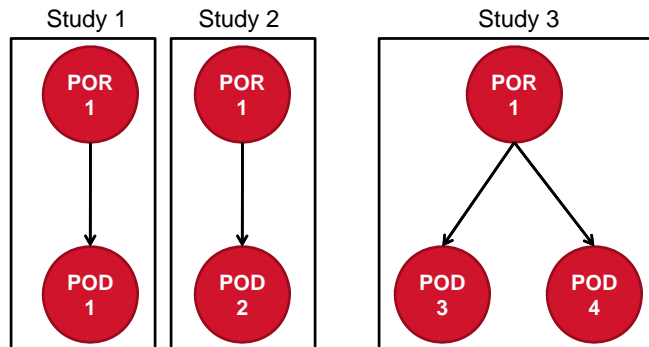
Multiple Customers from same resource

- **Multiple single studies**



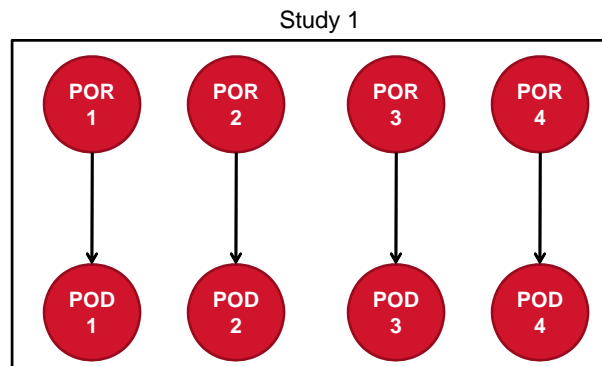
Multiple Customers from same resource

- **Combination**



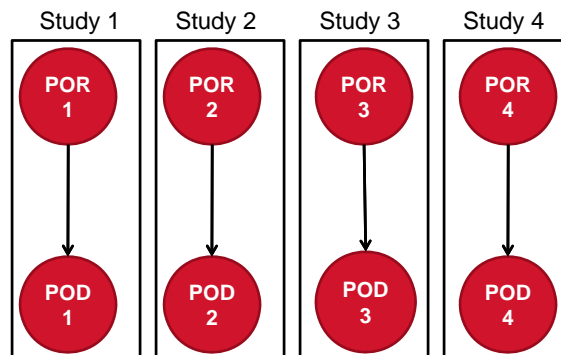
Multiple Customers from multiple resources

- **Single study**



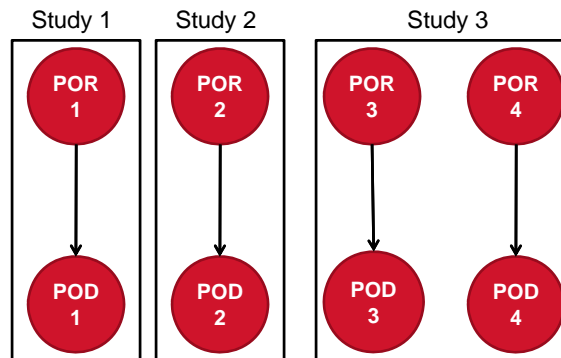
Multiple Customers from multiple resources

- **Multiple single studies**



Multiple Customers from multiple resources

- **Combination**



How to Request DPT Screening Study



Step 1: Customer Request

- **Customer enters OASIS request with statement in comment field “For Existing Delivery Point Transfer Only”**
- **Customer emails to DPT@spp.org:**
 - Executed DPT Screening Study Agreement
 - Completed NITS application
 - Attestation

Steps 2-11: DPT and LTSR Processes



Step 2: SPP Response

- **Within 5 days of receipt SPP will:**
 1. **Notify Customer of any application deficiencies**
 2. **Schedule confirmation call with Customer if needed**
 3. **Notify Customer if deposit is required**
 4. **Notify Customer of estimated study cost**

Step 3: Confirmation call (if needed)

- **SPP and Customer will verify study choices and discuss any application deficiencies**
 - **Failure by the Customer to provide any of the required documentation within 15 days of original request receipt shall be cause for withdrawal from the Screening Study**
 - **Upon receipt of a successfully completed application SPP will use due diligence to complete the Screening Study within a 90 day period**

Step 4: Customer Notification

- **SPP assigns study number(s)**
- **SPP provides Customer with study number(s) and acceptance notification**

Step 5: Model Development

- **SPP modifies MDWG Model Set**
 - **Remove Proposed/Exploratory projects:**
 - **Generation**
 - **Transmission Upgrades**
 - **Transmission Service**
 - **Add SPP-approved projects (if not already included):**
 - **Generation**
 - **Transmission Upgrades**
 - **Transmission Service**

Step 5: Model Development

- **SPP creates Scenario Base Case Models**
 - Add long-term firm transmission service commitments not included in the modified MDWG model set
 - Preexisting confirmed service
 - Service being studied in ongoing Aggregate Studies
- **SPP creates Group Transfer Case Models**
 - Apply request(s) being studied to Scenario Base Case Models

Steps 6 and 7

- **SPP performs MUST/PSSE analysis**
- **SPP evaluates results:**
 - Apply 3% transfer distribution factor (TDF) cutoff
 - Apply 0.02 per unit (pu) change in voltage to be a valid limit
 - Identify applicable Transmission Operating Directives (TOD)
 - Determine contingency validity
 - Determine appropriate upgrades and costs associated with the limitations
 - **DPT only** – Determine whether redispatch/curtailment can be offered for an already SPP-approved project

Step 8: Prepare Study Reports

- **Executive summary will include:**
 - **Model development**
 - **Analysis and solution used**
 - **Study criteria**
 - **Results/limitations identified (if applicable)**
- **Tables will include:**
 - **Results/limitations identified (if applicable)**
 - **Associated limitation data**

Step 9: Results Posted

- **SPP posts results to Studies homepage**
- **Customer receives email notification with link**

Screening Studies		
2010 Long Term Service Request Screening Study	2010 Delivery Point Transfer Screening Study	Screening Study Guidelines
		Delivery Point Transfer Screening Study Agreement
		Long-Term Service Screening Study Agreement
		NITS Application

Please send your requests to [Steve Purdy](#) :

Steve Purdy
Manager, Transmission Service Studies
Southwest Power Pool Inc.
415 N. McKinley, Suite 140
Little Rock, AR 72205

If you have any questions, please call at 501-614-3371.

Step 10: OASIS Maintenance

- **LTSR**
 - **SPP notifies Customer to withdraw request**
- **DPT**
 - **No Limitations or other issues to resolve**
 - **SPP accepts request – Customer confirms within 15 days**
 - **No Limitations with other issues to resolve**
 - **SPP works with Customer to resolve identified issue. Once completed, SPP accepts request – Customer confirms within 15 days**
 - **Limitations**
 - **SPP notifies Customer to withdraw request**

Step 11: Billing and True Up

- **If deposit was required:**
 - **If study costs less than deposit, SPP returns remainder to Customer plus interest**
 - **If study costs more than deposit, SPP obtains consent from Customer to exceed deposit value and continues study until complete**
- **If deposit was not required:**
 - **If study costs are less than or equal to estimated cost, SPP sends invoice to Customer**
 - **If study costs are more than estimate, SPP obtains consent from Customer to exceed estimate and continues study until complete**

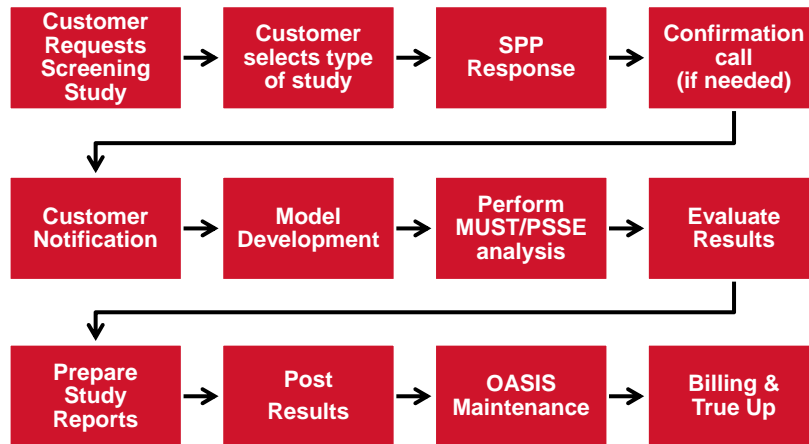
LTSR Next Steps

- **Customer decides to either:**
 - Enter request in Aggregate Study
 - Not pursue the request

DPT Next Steps

- **If no upgrades are required (for SPP or third party), SPP will issue Service Agreements to both:**
 - Customer requesting DPT
 - Original Customer
- **If SPP determines there is a significant impact on the transmission system, the Customer decides to either:**
 - Enter request in Aggregate Study
 - Not pursue the request

Summary



Screening Studies Website

- <http://sppoasis.spp.org/documents/swpp/transition/studies.cfm>

Screening Studies		
2010 Long Term Service Request Screening Study	2010 Delivery Point Transfer Screening Study	Screening Study Guidelines Delivery Point Transfer Screening Study Agreement Long-Term Service Screening Study Agreement NITS Application
Please send your requests to Steve Purdy : Steve Purdy Manager, Transmission Service Studies Southwest Power Pool Inc. 415 N. McKinley, Suite 140 Little Rock, AR 72205 If you have any questions, please call at 501-614-3371.		



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