

Guideline: Generation Owner Periodic Tasks and Data Submittals

PJM Generation Department
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Introduction

In order to assist PJM Generation Owners (GOs) with managing the various tasks, testing and data submittals required by PJM under the PJM Governing Agreements and Manuals, PJM has created this guideline. This guideline is not an all-inclusive list of items required of GOs by PJM's Manuals and Governing Documents. It also does not address other external third party, regulatory or legal compliance requirements including but not limited to NERC Reliability Standards applicable to NERC-registered entities and FERC's regulations. The liability of PJM, its Board, officers, employees and agents is governed by the applicable provisions of the PJM Tariff and Operating Agreement.

This document is broken into two sections: Required Tasks and Optional Tasks.

Required Tasks

Summer/Winter Net Capability Verification

Description

- Capability Verification testing is required of all generators that participate in the PJM Reliability Pricing Model (RPM) Capacity Markets or have a commitment in those markets.
- Summer Net Capability must meet or exceed the rated Installed Capacity (ICAP) and the claimed ICAP in PJM eGADS; Winter Net Capability must meet or exceed the rated ICAP and the claimed ICAP in PJM eGADS.

Responsible PJM Department	t(ξ
Descures Adequesy Diagning		

Resource Adequacy Planning

Email Distribution List gadssupport@pjm.com

Driver-/-Requirement

- PJM Manual 21, Rules and Procedures for Determination of Generating Capability
- PJM Manual 18, PJM Capacity Market

Periodicity: Semiannual* Start Date: June 1 | Dec. 1 End Date: Aug. 31 | Feb. 28–29

System Used To Collect Data

eGADS

Required or Optional?

Required

^{*} Winter verification tests can be summer tests corrected to winter conditions. Hydro units test only in the summer; no winter verification test is required for hydro units.



Black Start Testing

Description

Black Start units test their ability to start without outside power and remain in a stable operating state while running at minimum generation levels. Tests are conducted at plant by GO and sent to PJM for review, pass/fail determination, and record_keeping.

Driver/Requirement

Black Start Units Compensated by PJM

- OATT Schedule 6A, Section 12: To verify that they can be started and operated without being connected to the Transmission System, Black Start Units designated as critical shall be tested annually in accordance with the PJM manuals. The Black Start Unit owner shall determine the time of the annual test.
- OATT Schedule 6A, Section 14: To receive Black Start Service revenues, a Black Start Unit must have a successful annual test on record with the Transmission Provider within the preceding 13 months.
- PJM Manual 12, Section 4.6.14: To collect monthly Black Start revenues, a unit must have a successful Black Start test on record with PJM within the last 13 months. Once a generator is qualified, they have until the end of the 13th month following the last successful Black Start test date to submit documentation of the next successful annual test to PJM.
- If a unit fails a Black Start test, the unit is given a 10-day grace period within which it may retest without financial penalty if within the 13-month testing period.
- If the unit does not successfully pass a Black Start test
 within the 10-day grace period immediately following
 notification to PJM of a failed test, monthly Black Start
 revenues will be forfeited from the time of the first day of the
 month in which the unsuccessful test occurred until the first
 day of the first month after the unit successfully passes a
 Black Start test.

Black Start Units Not Compensated by PJM

- NERC Standard EOP-005, System
 Restoration from Blackstart Resources, R7:
 Each Transmission Operator shall have
 Blackstart Resource testing requirements to
 verify that each Blackstart Resource is
 capable of meeting the requirements of its
 restoration plan. These Blackstart Resource
 testing requirements shall include:
- R7.1: The frequency of testing such that each Blackstart Resource is tested at least once every three calendar years.
- R7.2: A list of required tests including:
 - R7.2.1: The ability to start the unit when isolated with no support from the BES or when designed to remain energized without connection to the remainder of the System
 - R7.2.2: The ability to energize a bus. If it is not possible to energize a bus during the test, the testing entity must affirm that the unit has the capability to energize a bus such as verifying that the breaker close coil relay can be energized with the voltage and frequency monitor controls disconnected from the synchronizing circuits.

Responsible Performance	e PJM Department(s) e Compliance	Email Distrik Blackstart@p	, will all the second s
Periodicity	 Testing periodicity of Critical Black S Review, pass/fail determination and least series 		
Start Date:	Varies depending on in-service date	End Date:	Varies depending on in-service date
-	d To Collect Data crosoft Excel Microsoft Access		Optional? Start Units: Required lack Start Units: Optional



Voltage Schedule Review

Description

Annual review of PJM maintained voltage schedules assigned by the TO, acknowledged by the GO and approved by PJM. The annual review consists of two parts:

- TOs review and update voltage schedules.
- GOs review and acknowledge voltage schedules.

Responsible Generation	PJM Department(s)	Driver/Requirement NERC Standard VAR-001, Voltage and Reactive Control
	• PJM Manual 3, Transmission Operations, Section 3.11 • dules@pjm.com	
Periodicity	Annual; Requires one mon	th each to complete review by TO and GO
Start Date:	April 1	End Date: May 31
System Use	d To Collect Data: eDART	Required or Optional? Required

eDART Reactive Capability Review

Description

To ensure accuracy of generator reactive capabilities that may result from planned unit modifications, a critical input to PJM and TO security analysis packages, PJM requires that each GO review and confirm their unit reactive capability data via eDART on a biannual basis. PJM and the TOs should then verify accuracy of unit reactive capabilities modeled in their respective EMS systems.

Responsible Generation	PJM Department(s)	Driver/Requirement PJM Manual 14-D, Generator Operational Requirements,
Email Distrik	oution List upport@pjm.com	Section 7.3.4, Generating Unit Reactive Capability Reporting
Periodicity	Semiannual: (Generation Owners: April & October Transmission Owners: May & November
Start Date:	April 1 & May 1Oct. 1 & Nov. 1	April 30 & May 31Oct. 31 & Nov. 30
System Used	d To Collect Data: e	



Cold Weather Checklist Data Request

Description

PJM expects all generation resources to use a cold weather preparation checklist prior to the National Oceanic and Atmospheric Administration (NOAA) first frost date to prepare for cold weather operations to promote reliability.

To verify and document the practice, generation resources are required to complete the Cold Weather Checklist Data Request issued by PJM.

Responsible PJM Department(s) Generation	Driver/RequirementPJM Manual 14-D, Generato Generation Resource Cold V	or Operational Requirements, Section 7.5.2 Weather Checklist
Email Distribution List edartgosurvey@pjm.com	 NERC Reliability Guideline: Generating Unit Winter Weather Readiness – Current Industry Practices 	
Periodicity: Annual	Start Date: Nov. 1	End Date: Dec. 15
System Used To Collect Data eDART	Required or Optional? Required	

Seasonal Fuel and Emissions Data Request

Description

The Seasonal Fuel and Emissions Data Request requires all generation resources to report fuel and emissions data so that in severe situations PJM has the situational awareness to make decisions to promote the reliable operation of the electric grid.

PJM needs data concerning unit fuel reserves and emissions limitations for it to reliably operate the PJM Balancing Authority and its associated markets. This is especially true during periods of severe weather and/or times when there are external fuel constraints.

Responsible PJM Department(s)	Email Distribution List
Generation	edartgosurvey@pjm.com

Driver-/-Requirement

- PJM Manual 14-D, Generator Operational Requirements, Section 7.3.5 Fuel and Emissions Reporting
- PJM Operating Agreement Sections 11.3 Member Responsibilities, 11.3.1 General, and Definition of Emergency, "'Emergency' shall mean: ... (ii) a fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel"
- NERC Reliability Standard, EOP-11, Emergency Operations

Periodicity: Annual	Start Date: Approx. Oct. 1	End Date: Approx. Nov. 15
System Used To Collect Data eDART	Required or Optional? Required	



Periodic Data Requests

Description

Depending on the severity of the weather forecasts, projected fuel availability, responses to the Seasonal Fuel and Emission Data Request, or other reasons, PJM may request on a periodic basis updated responses to the Seasonal Fuel and Emission Data Request questions for a subset of units. This information is intended to assist in the Operations Planning process.

Responsible PJM Department(s)	Email Distribution List
Generation	edartgosurvey@pjm.com

Driver/Requirement

- PJM Manual 14-D, Generator Operational Requirements, Section 7.3.5 Fuel and Emissions Reporting
- PJM Operating Agreement Sections 11.3 Member Responsibilities, 11.3.1 General, and definition of Emergency, "Emergency' shall mean: ... (ii) a fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel"
- NERC Reliability Standard, EOP-11, Emergency Operations

Periodicity: As required	Start Date: As required	End Date: As required
System Used To Collect Data: eDART	Required or Optional? Required	

eDART GO Contact Data Request

Description

"As soon as practicable, but no later than 3 business days following a generation transfer or a new generation resource being placed in commercial operation, the 'eDART Contact' responsible for tickets and data submittals in eDART must complete the eDART Contact Data Request – all fields are required. The Data Request is accessed by selecting the 'Gen. Tickets' menu item and the selecting GO Contact Data Request from the GO Data Request menu.

Name, Title, Role and Company of the primary and secondary individuals responsible for handling eDART functions. Email, Desk and Mobil Phone Numbers of the primary individual responsible for handling eDART functions. Name, phone number and Email of the primary individual or group that should be contacted for any operational issues and/or questions. This MUST be a group that can respond 24 hours a day, 7 days a week, 365 days a year. Name, phone number and Email of the secondary individual or group that should be contacted for any operational issues and/or questions. This MUST be a group that can respond 24 hours a day, 7 days a week, 365 days a year. Email Address of the group that should be contacted for any Voltage Schedule issues and/or questions."

ResponsibleGenerationMember F		Email Distribution List edartgosurvey@pjm.com	Driver/Requirement PJM Manual M-14D, Generator Operational Requirements, Section 5.7.2.10
Periodicity	Addition of information	within three days of new unit	addition or transfer.
Start Date:	Varies	End Date:	√aries
System Use	d To Collect Data: <u>eD</u>	ART Required or C	Optional? Required



NERC MOD-026/027 Data Submittals

Description

In order to verify that the dynamic model and the model parameters used in dynamic simulations that assess Bulk Electric System (BES) reliability accurately represent generator unit real power response to system frequency variations, GOs submit a report providing model parameters and plots proving the simulated response matches a recorded response. PJM determines if the provided models are "usable" or "not usable" by verifying they can initialize and pass several simulation tests designed to ensure they will function in the interconnection-wide models, in addition to comparing PJM simulations to reported simulation results.

Once an updated dynamic model is found useable, it is included in all future planning dynamics case builds and is passed to Operations to update the real-time Transient Stability Analysis Tool (TSAT).

Responsible PJM Department(s)

System Planning Modeling and Support

Email Distribution List

NERC.Transmission.Planner@pim.com

Driver/Requirement

- NERC Standard MOD-026 Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions
- NERC Standard MOD-027-1 Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions

Periodicity

- Within 365 days of going in-service or making an equipment change
- Subsequent verification on or before the 10-year anniversary of the last transmittal

End Date:

System Used To Collect Data PJM Planning Community

Required or Optional?

- Required for applicable generators (Individual generating unit greater than 100 MVA (gross nameplate rating) or individual generating plant consisting of multiple generating units that are directly connected at a common BES bus with total generation greater than 100 MVA (gross aggregate nameplate rating)).
- Optional for generators not meeting the applicability criteria in the standard.

Varies



Gen Model (MOD-032 for Generator Owners)

Description

What is the data? Generator data needed for load flow, short circuit, and dynamics modeling. Complete set of data requirements available on PJM Planning Center website.

Why is it needed? To verify and update planning models.

How is it used? On an ad-hoc basis (working toward adding more regularity and structure to this), Gen Model data is compared with existing modeling data, and if discrepancies are identified, they are confirmed with the GOs (or GO corrects invalid data) prior to implementing to update the model(s).

Responsible PJM Department(s)

System Planning Modeling and Support

Email Distribution List

MOD-032@pjm.com

Driver/Requirement

NERC Standard MOD-032 – Data for Power System Modeling and Analysis

End Date: June 15

- PJM requirements:
 - https://pjm.com/planning/services-requests/planning-modeling-submission-mod-032.aspx
- MOD-032 Steady State, Dynamics and Short Circuit Modeling Data Requirements and Procedures
- PJM Planning Center: Gen Model User Guide

Additional Guidance

PJM Compliance Bulletin CB022 – MOD-032-1 Data for Power Systems Modeling & Analysis

Periodicity: Annual	Start Date: May 1
System Hood To	Paguirad or Ontic

System Used To Collect Data

PJM Gen Model Portal

Required or Optional?

- Required by NERC Standard for all NERC-registered generators-
- Required by PJM for non-NERC generators that participate in the capacity market or noncapacity generators with nameplate rating >= 20MW

Resource Tracker Verification

Description

PJM requires a GO to have a single point of contact for real-time and near real-time operations. That single point of contact has to communicate and coordinate with the appropriate PJM member corporate entity to fulfill the assigned responsibilities.

Responsible PJM Department(s)

Member Relations

Email Distribution List

Driver-/-Requirement

PJM Manual 14-D, Generator Operational Requirements, Section 5.3.7

ResourceTrackerSupport@pim.com

Resource Tracker supports the maintenance of ownership information and provides the user the ability to review all sources of ownership information. GO, or designated agent, is required to confirm the resource ownership information.

Periodicity	Annual, and if a generator	is transferred	to another	entity	(two business days after	er transfer)
	Oct 1 or upon generation		End Da			
	d To Collect Data: Resource				Optional? Required	



Reactive Capability Testing

Description

"PJM requires testing to be coordinated between PJM, the testing facility and the local Transmission Owner's (TO) to ensure that the impact on system operations is minimized. Testing is intended to demonstrate reactive capability for those conditions where reactive reserves or voltage control would be required.

The testing covered in Attachment E is designed to demonstrate useable reactive capability and, unlike real power (MW) capacity testing, not a maximum capability test. It is the intent of these procedures to align with NERC Reliability Standard MOD-025 so separate tests to meet the NERC requirements and the PJM requirements are not needed.

The following facilities are required to perform reactive capability testing:

- Individual generating units and inverter-based Energy Storage Resources with a gross nameplate rating greater than 20 MVA and directly connected to the Bulk Electric System.
- Generating plants/facilities with a gross aggregate nameplate rating greater than 75 MVA including inverterbased Energy Storage Resources, and variable resources such as wind, solar, run of river hydro, etc.
- Synchronous condensers with a gross nameplate rating greater than 20 MVA and directly connected to the Bulk Electric System
- All generating units providing PJM Black Start Service"

Performance Compliance

Email Distribution List ReactiveTesting@pim.com

Driver/Requirement

- NERC Standard MOD-025 Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability
- PJM Manual 14-D Generator Operational Requirements, Attachment E-

Periodicity	Minimum of five every years			
Start Date:	Varies based on prev		End Date:	Varies based on previous test date
System Used eDART	To Collect Data	Required or Op Required for ger	otional? nerators specified	d above



Capacity Modification Transaction

Description

CAP M ODs are a type of Capacity Exchange transaction used by GOs to request the addition of a new unit or the removal of an existing unit from their resource portfolio in Capacity Exchange, or to request a MW increase or decrease in the summer or winter installed capacity rating of an existing unit.

Responsible I	PJM De	partment	(s)
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Capacity Market Operations

Email Distribution List RPM Hotline@pim.com

Driver/Requirement

 PJM Open Access Transmission Tariff (OATT), Attachment DD, Section 5.6.6

• PJM Manual 18, PJM Capacity Market, Section 4.2.6

Periodicity When permanent changes to the installed capacity value of a generation unit are necessary

Start Date: N/A End Date: N/A

System Used To Collect Data Required or Optional?

<u>Capacity Exchange</u> Required

Restoration Drills

Description

All generation facilities identified in PJM TO Restoration Plans that are invited to participate in restoration drill are required to participate.

Responsible PJM Department(s)

State and Member Training

Email Distribution List

TrainingSupport@pjm.com

Driver-/-Requirement

- NERC Standard EOP-005, System Restoration Plans
- NERC Standard EOP-006, System Restoration Coordination
- PJM Manual 36, System Restoration, Attachment -D-

Periodicity Varies, at least once annually

Start Date: Varies, subject to scheduling constraints;

commonly during spring

End Date: Varies, similar to the start date

System Used To Collect Data

- Resource Tracker used to track company contacts-
- PJM Learning Management System (LMS) is used to document drill participation-

Required or Optional?

Required (if invited to participate) – NERC Compliance



Variable Operating and Maintenance Cost (VOM) Review

Description

Maintenance expenses are associated with the repair or replacement of equipment due to wear and tear from electric production. Operating costs are expenses related to consumable materials used during unit operation. Maintenance expenses and operating costs are recoverable through the energy market. Only expenses/costs incurred as a result of electric production based on operating hours, starts, or a combination of operating hours and starts qualify for inclusion. Fixed costs cannot be included.

In order to utilize a VOM adder with a cost-based offer, the maintenance expenses and operating costs must be submitted to PJM and the Market Monitoring Unit (MMU) for review annually. Maintenance and operating cost adders must be approved before they can be included in the Market Seller's cost-based offer. Approved VOM adders expire Dec. 31 of the year following acceptance.

Responsible PJM Department(s) Performance Compliance Department	Email Distribution List FuelCostPolicyAnalysis@pjm.com	Driver/Requirement Operating Agreement Schedule 2 Section 4
Periodicity Annual		
Start Date: June 15 (as early as J	an. 1), or as needed End D	ate: Dec. 31
System Used To Collect Data connectpim.com – SharePoint	Required or Optional? Required for any unit submitting a VOI	M adder on their cost-based offer

Fuel Cost Policy Review

Description

Market Sellers that offer a generation resource, including external capacity and energy-only resources, and submit a non-zero cost-based offer (including negative offers) in the PJM Interchange Energy Market, must have a PJM-approved Fuel Cost Policy consistent with each fuel type on which the resource can operate. Regulation-only resources do not require a Fuel Cost Policy.

Prior to expiration of a Fuel Cost Policy, all Market Sellers will be required to either submit to PJM and the Market Monitoring Unit an updated Fuel Cost Policy that complies with this Operating Agreement, Schedule 2, and PJM Manual 15, or confirm that their expiring Fuel Cost Policy remains compliant.

Responsible Performance Department	PJM Department(s) Compliance	Email Distribut		<u>com</u>	Driver/Requirement Operating Agreement Schedule 2, Section 2
Periodicity	Periodic review current	y occurs every th	ree years		
Start Date:	Jan.1 on year of expirat	ion, or submitted	End Date:	Nov.	1 on year of expiration, or 30 business after new policy is submitted
System Used	To Collect Data	Required or Op Required for an		g a noi	n-zero cost-based offer



Monitoring Analytics' Member Information Reporting Application (MIRA) tool

Emissions Data Submittal

Description

Market Sellers may elect, but are not required, to include emissions adders in their cost-based energy offer. Market Sellers must indicate, in their unit's Fuel Cost Policy, if they are including emissions adders in their cost offers. Emissions rates must be submitted to PJM, via COA, and be approved before they can be included in the Market Seller's cost-based offer.

Responsible PJM Department(s) Performance Compliance Department	Email Distribution List FuelCostPolicyAnalysis@pjm.com	Driver/Requirement Operating Agreement Schedule 2, Section 3
Periodicity Annual		
Start Date: June 15 (Data may be	submitted as early as Jan. 1)	End Date: Dec. 31
 System Used To Collect Data EPA Monitoring Analytics' MIRA tool Cost Offer Assumptions (COA) me 	they use non-zero Emissio	specifies in their Fuel Cost Policy that ns adders in their cost offers

Black Start Cost Submittal

Description

On an annual basis, Black Start generators must submit data for their annual revenue calculation, which consists of fixed Black Start Service costs (capital), variable Black Start Service costs (VOM) and fuel storage costs related to providing Black Start Service.

Responsible PJM Department(s) Performance Compliance Department	Email Distribution List blackstart@pjm.com	Driver/Requirement OATT Schedule 6A, Section 17 A
Periodicity Annual		
Start Date: May 3	End Date: May 27	
System Used To Collect Data Monitoring Analytics' MIRA tool DART	Required or Optional? Required for all Black Start U	nits



Optional Tasks

Annual Grid Security Drill/GridEx

Description

Grid security drills test the reliability and resilience of PJM and member company procedures, practices, technology and logistical support to events that affect the bulk electric system.

Responsible PJM Department(s)		Driver/Requirement				
System Operator TrainingState and Member Training		• PJM Manual 40, Training and Certification Requirements,				
			3.2.2 Market Operation Center Generation Dispatchers			
 Business 	Continuity Planning	Certification Requirements				
		 NERC Standard PER-005-2, Operations Personnel Training 				
	Email Distribution List bc_planning@pjm.com		NERC Standard EOP-011-1, Emergency Operations			
Periodicity	Biannually					
Start Date:	During the month of November	End Date:	During the month of November			
System Used To Collect Data Participation forms		Required o	r Optional?			

Regulation Testing

Description

If units elect to participate in the regulation market, they will need to pass a series of tests in order to qualify. All testing requirements are identified in PJM Manual 12, Balancing Operations, Section 4.5, as well as links that need to be created in Manual 12, Section 4.4. Other reasons that units may need to test are identified in the manual as well. This includes change of ownership and change to signal paths.

Responsible PJM Department(s) Performance Compliance	Driver-/-Requirement Manual 12, Balancing Operations, Section 4.4, 4.5			
Email Distribution List RegulationTesting@pjm.com				
Periodicity Upon request by MarketSeller				
Start Date: N/A	End Date: N/A			
System Used To Collect Data Email (test scheduling and follow-up) PI (for scoring test)	Required or Optional? Optional			



RTO Wide and Incremental Black Start RFPs

Description

PJM issues an RTO-Wide Black Start RFP every five years to identify new or replacement Black Start to enhance overall restoration reliability and efficiency. PJM may issue Incremental Black Start RFPs due to unit retirements, Black Start Service terminations or critical loads additions/removals. PJM's Black Start RFP process is used to meet minimum Black Start requirements defined in PJM Manual 36 System Restoration, Attachment A.

Responsible Generation	Responsible PJM Department(s) Generation		Driver/Requirement PJM Manual 14D, Section 10 Black Start Generation Procurement		
Email Distribution List blackstart@pjm.com		 PJM Manual 36, Attachment A, Minimum Critical Black Start Requirement 			
Periodicity	RTO Wide – Every five year of award; Incremental, as r		ck Start Reso	ources entering service within 24 months	
Start Date:	Initiated RTO-Wide RFF Black Start resources at Process repeats every f	vailable in 2020	End Date:	Refer to PJM Manual 14-D, Generator Operational Requirements, Section 10 for Black Start procurement timelines.	
-	d to Collect Data ested parties respond to RFF ijm.com	^o via email to	Required of Optional	or Optional?	

Unit_-Specific Parameter Adjustment

Responsible PJM Department(s)

Description

Market Sellers that do not believe their individual resources can meet the unit-specific parameter limits determined by PJM due to actual operating constraints, can request that PJM establish adjusted unit-specific parameter limits for those resources on their price-based Parameter Limited Schedule (PLS and cost-based schedules.

Driver/Requirement

System Used To Collect Data Email – Microsoft Excel spreadsheet unitspecificpls@pjm.com	Required or Optional? Sent to Optional			
Start Date: March1	End Date: Feb. 28			
Periodicity Annual				
Email Distribution List unitspecificpls@pjm.com	 PJM Operating Agreement (OA) Schedule 1, Section 6.6 PJM Manual 11, Energy & Ancillary Services Market Operations, Section 2.3.4.2 			
Operations				
Generation & Day-Ahead Market	PJM Open Access Transmission Tariff (OATT), Attachment K, Section 6.6			



Real-Time Values

Description

"Market Sellers can communicate the resource's current operational capabilities to PJM before and after the Dayahead Energy Market closes through the 'Real Time Values' function in Markets Gateway. Real Time Values should be utilized when a resource cannot operate according to the unit specific parameters or approved Parameter Limit Exceptions."

Responsible PJM Department(s) Generation Department Day-Ahead MarketOperations Department Email Distribution List realtimevalues@pjm.com	Driver/Requirement Manual 11, Energy & Ancillary Services Market Operations, Section 2.3.4.4
Periodicity Up to 30 days when RTV is submitted	
Start Date: As needed	End Date: As needed
System Used To Collect Data Markets Gateway	Required or Optional? Optional



Attachment A

