

Single Electricity Market

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| Final REcommendation ReportMod\_09\_17 solar in i-sem 7 november 2017  |

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Document History

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Comment** |
| 1.0 | 7 November 2017 | Modifications Committee Secretariat | Issued to Modifications Committee for review and approval |
| 2.0 | 28 November 2017 | Modifications Committee Secretariat | Issued to Regulatory Authorities for final decision |

Reference Documents

|  |
| --- |
| **Document Name** |
| [Trading and Settlement Code](http://www.sem-o.com/MarketDevelopment/MarketRules/TSC.docx) |
| [Modification Proposal](http://www.sem-o.com/MarketDevelopment/ModificationDocuments/Mod_09_17%20Solar%20in%20the%20ISEM.docx) |
| [Modification Proposal version 2.0](http://www.sem-o.com/MarketDevelopment/ModificationDocuments/Mod_09_17%20Solar%20in%20the%20ISEM_V2.docx) |
| [Presentation](http://www.sem-o.com/MarketDevelopment/ModificationDocuments/Mod_09_17%20Presentation.pdf) |
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# MODIFICATIONS COMMITTEE RECOMMENDATION

## Recommended for approval subject to legal drafting – unanimous Vote

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| --- |
| **Recommended for Approval by Unanimous Vote**  |
| Conor Powell | Supplier Member | Approved |
| Derek Scully | Generator Alternate | Approved |
| Clive Bowers | Generator Alternate | Approved |
| Jim Wynne | Supplier Member | Approved |
| David Gascon | Generator Alternate | Approved |
| Brian Mongan | Generator Member | Approved |
| Philip Carson | Supplier Alernate | Approved |
| Julie-Anne Hannon | Supplier Member (Chair) | Approved |

# Background

This Modification Proposal was raised by SEMO and was received by the Secretariat on 5 October 2017.

The proposed change is to make specific provision for Solar Power Units in the ISEM market rules. The intention is to treat solar in a similar way to wind given the variable fuel type and Priority Dispatch status. This is in line with System Operator requirements and the Regulatory Authorities letter of intentions dated 24/03/2017 and circulated to the Modifications Committee on 28/04/2017.

The Modification Proposal was discussed and voted on at Meeting 76 on 19 October 2017.

# PURPOSE OF PROPOSED MODIFICATION

**3A.) justification of Modification**

The justification for this Modification proposal is to ensure that Solar Power Units can participate in the ISEM and have accurate rules detailing their operation in the ISEM in line with TSO and Regulatory requirements.

**3B.) Impact of not Implementing a Solution**

Not implementing this proposal would mean that solar power continues not to be explicitly represented in the ISEM market rules resulting in a lack of clarity and no provision for this fuel type.

**3c.) Impact on Code Objectives**

Section 1.3

to facilitate the participation of electricity undertakings engaged in the generation, supply or sale of electricity in the trading arrangements under the Single Electricity Market;

to promote competition in the single electricity wholesale market on the island of Ireland;

to ensure no undue discrimination between persons who are parties to the Code;

1. **Assessment of Alternatives**

N/A

# Working Group and/or Consultation

N/A

# impact on systems and resources

System changes are not required since the intention is to use the Wind fuel type within the Central Market Systems given that the scheduling, dispatch and settlement treatments are identical.

There will be a small change to procedures to capture the setting of fuel type for Solar to Wind which is captured in the updated Agreed Procedure drafting above.

# Impact on other Codes/Documents

N/A

# MODIFICATION COMMITTEE VIEWS

## Meeting  **76 – 19 october 2017**

Proposer delivered a [presentation](http://www.sem-o.com/MarketDevelopment/ModificationDocuments/Mod_09_17%20Presentation.pdf) summarising the requirement for this proposal. Proposer indicated that this Modification seeks to make provision for Solar Powered Units in the ISEM. Proposer indicated that the approach was the same as that taken in Part A for the SEM in that the intention was to set the fuel type for Solar units to Wind. This is because a more bespoke treatment which results in separate treatment of Wind and Solar would not be available for the cutover to ISEM. Proposer indicated that there were a number of things which would need to be in place for an enduring and bespoke treatment including market system changes to consume and publish separate datasets and also some additional System Operator system updates in relation to forecast data etc. Proposer indicated that an enduring approach would be considered for implementation after the cutover to ISEM and that this would be considered as part of the Day 2 project. Proposer noted that delivery for Day 2 would be investigated and pursued but could not be guaranteed at this stage. Proposer indicated that SEMO would manually publish a list detailing which unit IDs relate to Solar Powered Units so that Participants can disentangle the data if necessary. Proposer also indicated that data on Solar Power Units only could also be requested from the market helpdesk if this was required.

Proposer noted that the Modification also seeks to remove the obligation on SEMO to publish outage adjusted Wind and Solar forecast data. Proposer stated that this data was originally considered for use in the Aggregator of Last Resort (AOLR) process but that it is no longer needed for that purpose and is also not available either for the current SEM or for ISEM post cutover. Proposer indicated that, since this data is not needed for AOLR and is not currently available, they considered it likely that it was no longer required in general.

Concerns were expressed in relation to the provision within the proposal to remove the outage adjusted wind and solar forecast data in I-SEM. It was agreed that the committee were happy to approve the Solar in I-SEM content of the approval but would not approve the outage adjusted forecast section. It was agreed that the committee would vote subject to legal drafting resulting in Mod\_09\_17 solely relating to Solar in I-SEM and that a new modification would be raised for the next meeting on the area of outage adjusted forecast provision.

Committee were in agreement to vote on this proposal subject to legal drafting.

# Proposed Legal Drafting

As set out in Appendix 1below.

#  LEGAL REVIEW

N/A

# IMPLEMENTATION TIMESCALE

It is proposed that this Modification is implemented on a Trading Day basis with effect from one Working Day after an RA Decision.

# Appendix 1: Mod\_09\_17 version 2.0 : solar in i-sem

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| **MODIFICATION PROPOSAL FORM** |
| **Proposer***(Company)* | **Date of receipt***(assigned by Secretariat)* | **Type of Proposal***(delete as appropriate)* | **Modification Proposal ID***(assigned by Secretariat)* |
| **SEMO** | **1 November 2017** | **Standard** | **Mod\_09\_17** |
| **Contact Details for Modification Proposal Originator** |
| **Name** | **Telephone number** | **Email address** |
| **Christopher Goodman** |  | **Christopher.goodman@sem-o.com** |
| **Modification Proposal Title** |
| **Solar in the Integrated Single Electricity Market (V2)** |
| **Documents affected***(delete as appropriate)* | **Section(s) Affected** | **Version number of T&SC or AP used in Drafting** |
| **Part B T&SC (Body, Appendices and Glossary)****Part B AP04 & AP06** | **Trading and Settlement Code Part B body** **B.7.2.2, B.15.1.2****C.7.3.1****D.6.1.1****Part B Appendices****Table of Contents - Wind Power Unit Forecast****Appendix E - Table 4****Appendix K – Clauses 2, 5 and 22; Tables 1, 28 and 29****Appendix O – Clause 37(e) and Table 1****Part B Glossary Definitions** **Solar Power Unit (new)****Annual Load Forecast****Four Day Load Forecast****Monthly Load Forecast****Generator Unit****Instruction Combination Code****Wind Power Unit Forecast****Part B AP04 Appendix 2 table 9****Primary Fuel Type****Secondary Fuel Type****Part B AP06 Appendix 2****Four Day Rolling Wind Unit Forecast****Four Day Aggregated Rolling Wind Unit Forecast****Aggregated Wind Forecast****Aggregated Contracted Quantities for Wind**  | **Version 20** |
| **Explanation of Proposed Change***(mandatory by originator)* |
| The proposed change is to make specific provision for Solar Power Units in the ISEM market rules. The intention is to treat solar in a similar way to wind given the variable fuel type and Priority Dispatch status. This is in line with System Operator requirements and the Regulatory Authorities letter of intentions dated 24/03/2017 and circulated to the Modifications Committee on 28/04/2017. Mod\_04\_17 Solar in the SEM, which has been recommended for approval, is intended to make the appropriate changes to the market rules to reflect solar generation for the existing SEM. This proposal is the ISEM equivalent. Version 1 of this modification included provisions to remove the obligation on the Market Operator to publish outage adjusted wind and solar reports. This second version removes this provision which will be brought as a separate proposal as requested by the Modifications Committee. |
| **Legal Drafting Change***(Clearly show proposed code change using* ***tracked*** *changes, if proposer fails to identify changes, please indicate best estimate of potential changes)* |
| ***Trading and Settlement Code Part B Body***B.7.2.2 A Party (or Applicant, as applicable) shall, in a Participation Notice in respect of a Generator Unit, specify if the Unit is: * + - * 1. a Wind Power Unit;
				2. an Energy Limited Generator Unit;
				3. a Pumped Storage Unit;
				4. a Battery Storage Unit;
				5. a Demand Side Unit;
				6. an Aggregated Generator Unit;
				7. a Trading Unit;
				8. an Assetless Unit;
				9. a Dual Rated Generator Unit; or
				10. a Solar Power Unit.

B.15.1.2 The Balancing Market Operations Timetable produced by the Market Operator under paragraph shall reflect required actions and publication of data and information, as specified under this Code and the Grid Code, including but not limited to the following:* + - * 1. submission by Participants to the Market Operator or System Operator of Commercial Offer Data and Technical Offer Data including Default Data;
				2. submission by Participants to the Market Operator and System Operator of Physical Notifications;
				3. submission by Participants and/or publication by the Market Operator or System Operator of Availability, Demand, solar and wind forecast data;
				4. publication by the Market Operator or System Operator of scheduling and dispatch outcomes;
				5. publication by the Market Operator of Imbalance Settlement Prices;
				6. timing of initial and final Settlement Statements and Settlement Documents;
				7. timing of Timetabled Settlement Reruns;
				8. timing for payments in accordance with Settlement Documents; and
				9. timing for Market Operator to issue Required Credit Cover Reports, and for Participants to post additional Credit Cover.

C.7.3.1 The Market Operator shall publish Load Forecasts and Wind and Solar Power Unit Forecasts and the assumptions behind the production of those forecasts using the data most recently submitted by the System Operators to the Market Operator at the time of publication.D.6.1.1 Each System Operator shall submit to the Market Operator the following forecast values pertaining to its Jurisdiction in accordance with Appendix K “Other Market Data Transactions”:* + - * 1. Annual Load Forecast;
				2. Monthly Load Forecast;
				3. Four Day Load Forecast; and
				4. Wind and Solar Power Unit Forecast.

***Trading and Settlement Code Part B Appendices******Contents***Wind and Solar Power Unit Forecast Data Transaction………………… 78***Appendix E*****Table 4 – Data publication list part 4: updated daily in advance of the Trading Day**

|  |  |  |  |
| --- | --- | --- | --- |
| **Time** | **Item / Data Record** | **Term** | **Subscript** |
| **Daily, in advance of the the Trading Day** |  |  |  |
| By 17:00 on the day prior to the Gate Closure 1 in respect of the Trading Day | Trading Day Exchange Rate between euro (€) and pounds sterling (£)  | - | - |
| By 17:00 on the day prior to the Trading Day, plus as updated | Unit Under Test |  |  |
| By 17:00 on the day prior to the Trading Day, plus as updated | Net Transfer Capacity |  |  |
| By 17:00 on the day prior to the Trading Day, plus as updated | Four Day Load Forecast | - | - |
| By17:00 on the day prior to the Trading Day, plus as updated | Four Day Rolling Wind and Solar Power Unit Forecast by Unit |  |  |
| By 17:00 on the day prior to the Trading Day, plus as updated | Four Day Rolling Wind and Solar Power Unit Forecast aggregated by Jurisdiction | - | - |
| By 17:00 on the day prior to the Trading Day, plus as updated | Four Day Rolling Wind and Solar Power Unit Forecast by Market | - | - |
| By 17:00 on the day prior to the Trading Day, plus as updated | OUTAGE ADJUSTED WIND UNIT FORECAST – 36 hours lookout |  |  |
| By 17:00 on the day prior to the Trading Day | Daily Transmission Outage Schedule Report |  |  |
|  |  |  |  |

***Appendix K**** 1. **Data Transactions**
		+ 1. The Data Transactions in this Appendix K include:

**Data Transactions from System Operator to Market Operator** * + - * 1. System Parameters (FCLAF)
				2. Loss Adjustment Factors (FTLAF and FDLAF)
				3. Generator Unit Technical Characteristics
				4. Short Term Reserves (qSTR and qORR)
				5. System Operator Flags (FSO, FNM and FSS)
				6. Demand Control (QDC)
				7. System Characteristics (FRQAVG and FRQNOR)
				8. Dispatch Instructions
				9. SO Interconnector Trades
				10. SO Interconnector Physical Notifications
				11. Annual Load Forecast
				12. Monthly Load Forecast
				13. Four Day Load Forecast
				14. Wind and Solar Power Unit Forecast
				15. Uninstructed Imbalance Parameters (FPUG, FDOG, FUREG, TOLMW, TOLENG)
				16. Testing Tariffs
				17. Strike Price Parameters (PCARBON, PFUELNG and PFUELO)
1. The Market Operator shall use Contingency Data in the event that the following Data Transactions are not received within the timescales required under the Code:

**Data Transactions from System Operator to Market Operator**1. Four Day Load Forecast
2. Wind and Solar Power Unit Forecast

**Table 1 – Contingency Data Rules for Market Data Transactions**

| **Transaction** | **Associated Ex-ante Gate Closure** | **Contingency Data** |
| --- | --- | --- |
| Wind and Solar Power Unit Forecast | DAM | Most recent Wind and Solar Forecast Accepted by DAM Gate Closure |
| Wind and Solar Power Unit Forecast | IDM | Most recent Wind and Solar Forecast Accepted by each IDM Gate Closure |

**Wind and Solar Power Unit Forecast Data Transaction**1. The Data Records for the Wind and Solar Power Unit Forecast Data Transaction are described in and the Submission Protocol in .

**Table 28 – Wind and Solar Power Unit Forecast Data Transaction Data Records**

|  |
| --- |
| Period Type (A for Annual, M for Monthly or D for Daily) |
| Unit ID |
| Trading Day  |
| Imbalance Settlement Period |
| Jurisdiction |
| Output Forecast for each Wind Power Unit and Solar Power Unit, in MW |
| Assumptions |

**Table 29 – Wind and Solar Power Unit Forecast Data Transaction Submission Protocol**

|  |  |
| --- | --- |
| Sender | System Operator(s) |
| Recipient | Market Operator |
| Number of Data Transactions | At least once for each Jurisdiction in each of the following timescales in respect of the relevant Trading Day:By the DAM Gate Closure and as updated;Data Transactions should contain data for each Wind Power Unit and Solar Power Unit in a given Jurisdiction for each Imbalance Settlement Period in the following two complete Trading Days |
| Frequency of Data Transactions | At least once prior to the DAM Gate Closure, plus as updated |
| First Submission time | As updated |
| Last Submission time | Unlimited, at least one Data Transaction shall be submitted by the DAM Gate Closure, plus as updated  |
| Permitted frequency of resubmission prior to last submission time | Unlimited |
| Required resubmission subsequent to last submission time | None |
| Valid Communication Channels | Type 3 (computer to computer)  |
| Process for data validation  | None |

***Appendix O*****Table 1 – Instruction Codes and Instruction Combination Codes for Dispatch Instructions issued by the System Operator**

| **Instruction Code** | **Instruction Combination Code** | **Description** |
| --- | --- | --- |
| SYNC | n/a | Synchronise the Generator Unit at the specified Instruction Effective Time. |
| MWOF | n/a | Adjust the Generator Unit Output to the specified Target Instruction Level at the specified Instruction Effective Time. |
| DESY | n/a | Desynchronise the Generator Unit at the specified Instruction Effective Time. |
| GOOP | PGEN | Instruct positive Output from a Pumped Storage Unit or a Battery Storage Unit at the specified Instruction Effective Time. |
| GOOP | PUMP | Instruct negative Output from a Pumped Storage Unit or a Battery Storage Unit at the specified Instruction Effective Time. |
| GOOP | SCT | Instruct Synchronisation in generating mode and 0MW Output for a Pumped Storage Unit or a Battery Storage Unit at the specified Instruction Effective Time. |
| GOOP | SCP | Instruct Synchronisation in Pumping Mode and 0MW Output from a Pumped Storage Unit or a Battery Storage Unit at the specified Instruction Effective Time. |
| TRIP | n/a | Retrospectively issued Dispatch Instruction to indicate that a Generator Unit Desynchronised unexpectedly. |
| WIND | LOCL | Instruction for a Wind Power Unit or Solar Power Unit to reduce Output due to a Local Network Constraint at the specified Instruction Effective Time. |
| WIND | LCLO | Instruction for a Wind Power Unit or Solar Power Unit to cease the reduction of Output due to a Local Network Constraint at the specified Instruction Effective Time. |
| WIND | CURL | Instruction for a Wind Power Unit or Solar Power Unit to reduce Output due to an All-Island Curtailment at the specified Instruction Effective Time. |
| WIND | CRLO | Instruction for a Wind Power Unit or Solar Power Unit to cease the reduction of Output due to an All-Island Curtailment at the specified Instruction Effective Time. |
| MXON | n/a | Instruction to a Generator Unit to adjust its Output to the registered Short Term Maximisation Capability at the specified Instruction Effective Time. |
| MXOF | n/a | Instruction to de-activate a Maximisation Instruction at the specified Instruction Effective Time. |
| FAIL | n/a | Retrospectively-issued Dispatch Instruction to indicate that a Generator Unit failed to Synchronise as instructed. |

***Appendix O Clause 37(e)**** + - * 1. The default Instructed Quantity for a Wind Power Unit or a Solar Power Unit shall be set to its Output based on its Meter Data. The Instructed Quantity for a Wind Power Unit or a Solar Power Unit having a WIND Instruction Code and a LOCL or CURL Instruction Combination Code shall be set to the minimum of the Outturn Availability of the Wind Power Unit or Solar Power Unit and the Target Instruction Level of the Wind Power Unit or Solar Power Unit.

***Trading and Settlement Code Part B Glossary***

|  |  |
| --- | --- |
| **Annual Load Forecast** | means the forecast of Demand to be met by Generator Units (other than not Dispatchable, not Controllable Generator Units that are not Wind or Solar Power Units) at the point where the Units are Connected (i.e. prior to the application of Combined Loss Adjustment Factors), but net of Unit Load for Generator Units, for each Imbalance Settlement Period in a Year for a given Jurisdiction. |

|  |  |
| --- | --- |
| **Four Day Load Forecast** | means the forecast of Demand to be met by Generator Units (other than not Dispatchable, not Controllable Units that are not Wind or Solar Power Units) at the point where the Units are Connected (i.e. prior to the application of Combined Loss Adjustment Factors), but net of Unit Load for Generator Units, for each Imbalance Settlement Period in the next four Trading Days. |

|  |  |
| --- | --- |
| **Generator Unit** | means one or more Generators, other item of Dispatchable plant or a notional unit registered as a Generator Unit under this Code.For the purposes of the Code a Generator Unit may be any one of the following types:1. physical: Aggregated Generator Unit, Demand Side Unit, Energy Limited Generator Unit, Hydro-electric Generator Unit, Pumped Storage Unit, Battery Storage Unit, Trading Unit, Wind Power Unit, Solar Power Unit or Dual Rated Generator Unit;
2. notional: Assetless Unit, which includes a unit registered by a SEM NEMO or a Shipping Agent under section B.8, an Interconnector Error Unit or Interconnector Residual Capacity Unit.
 |

|  |  |
| --- | --- |
| **Instruction Combination Code** | means a code issued with a Dispatch Instruction for Pumped Storage Units, Solar Power Units and Wind Power Units only indicating the mode of operation of the relevant Generator Unit, for the purpose of Appendix O: “Instruction Profiling Calculations” only. |

|  |  |
| --- | --- |
| **Monthly Load Forecast** | means the forecast of Demand to be met by Generator Units (other than not Dispatchable, not Controllable Generator Units that are not Wind or Solar Power Units) at the point where the Units are Connected (i.e. prior to the application of Combined Loss Adjustment Factors), but net of Unit Load for Generator Units, for each Imbalance Settlement Period in the next Month. |

|  |  |
| --- | --- |
| **Solar Power Unit** | means a Generator Unit generating electricity from solar energy. |

|  |  |
| --- | --- |
| **Wind and Solar Power Unit Forecast**  | means a forecast of the Output that will be produced by Wind Power Units and Solar Power Units, excluding not Dispatchable, not Controllable Generator Units, for each Imbalance Settlement Period in the following two Trading Days, as carried out in relation to each such Wind Power Unit and Solar Power Unit by the relevant System Operator. |

***Trading and Settlement Code Part B Agreed Procedures******Agreed Procedure 04 (Appendix 2) Table 9***

|  |  |  |
| --- | --- | --- |
| Fuel Type | Valid values: BATTERY\_STORAGE (BATTERY), BIOMASS, COAL, COMBINED\_HEAT\_AND\_POWER (CHP), COMPRESSED\_AIR\_STORAGE (CAS), DISTILLATE, FLY\_WHEEL, GAS, HYDRO, MULTI\_FUEL, NUCLEAR, OIL, PEAT, PUMP\_STORAGE (PUMP), Solar Power Units will be set equal to WIND, WIND, OTHER | RD |
| Secondary Fuel Type |

|  |  |
| --- | --- |
| Valid values: BATTERY\_STORAGE (BATTERY), BIOMASS, COAL, COMBINED\_HEAT\_AND\_POWER (CHP), COMPRESSED\_AIR\_STORAGE (CAS), DISTILLATE, FLY\_WHEEL, GAS, HYDRO, MULTI\_FUEL, NUCLEAR, OIL, PEAT, PUMP\_STORAGE (PUMP), , OTHER | RD |

 |  |

**Agreed Procedure 06 (Appendix 2) Data Reports**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Four Day Rolling Wind and Solar Unit Forecast | D | Four times per day, following receipt of each Wind and Solar Unit Forecast | - | Y | Member Public |  |
| Four Day Aggregated Rolling Wind and Solar Unit Forecast | D | Four times per day | - | Y | Member Public |  |
| Outage Adjusted Wind Unit Forecast Report | D | Four times per day, following receipt of each Wind Unit Forecast | - | Y | Member Public |  |
| Outage Adjusted Solar Unit Forecast Report | D | Four times per day, following receipt of each Solar Unit Forecast | - | Y | Member Public |  |
| Aggregated Wind and Solar Forecast | D | Four times per day, following receipt of each Wind and Solar Unit Forecast | - | Y | Member Public |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Aggregated Contracted Quantities For Wind and Solar | F | Updated every hour for All Imbalance Settlement Periods for which the Balancing Market Gate Window is still open in the Trading Day  | - | Y | Member Public |  |

 |
| **Modification Proposal Justification***(Clearly state the reason for the Modification)* |
| The justification for this Modification proposal is to ensure that Solar Power Units can participate in the ISEM and have accurate rules detailing their operation in the ISEM in line with TSO and Regulatory requirements. |
| **Code Objectives Furthered***(State the Code Objectives the Proposal furthers, see Section 1.3 of T&SC for Code Objectives)* |
| Section 1.3 to facilitate the participation of electricity undertakings engaged in the generation, supply or sale of electricity in the trading arrangements under the Single Electricity Market;to promote competition in the single electricity wholesale market on the island of Ireland; to ensure no undue discrimination between persons who are parties to the Code;   |
| **Implication of not implementing the Modification Proposal***(State the possible outcomes should the Modification Proposal not be implemented)* |
| Not implementing this proposal would mean that solar power continues not to be explicitly represented in the ISEM market rules resulting in a lack of clarity and no provision for this fuel type. |
| **Working Group***(State if Working Group considered necessary to develop proposal)* | **Impacts***(Indicate the impacts on systems, resources, processes and/or procedures)* |
| No | System changes are not required since the intention is to use the Wind fuel type within the Central Market Systems given that the scheduling, dispatch and settlement treatments are identical.There will be a small change to procedures to capture the setting of fuel type for Solar to Wind which is captured in the updated Agreed Procedure drafting above. |
| ***Please return this form to Secretariat by email to*** ***modifications@sem-o.com*** |