

CP1332 Attachment– BSCP75 v11.0 Redline Text v0.2

Section 1 - 3 No changes

Section 4.1.1 – 4.1.12 No changes

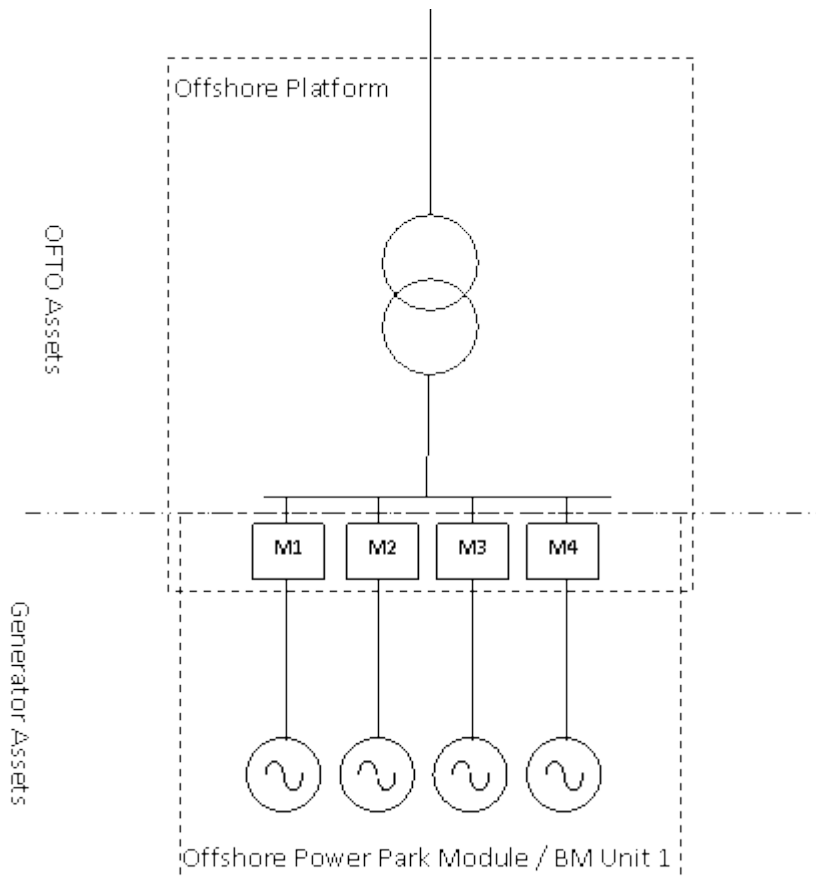
4.1.13 This example below is a simplified example of an offshore wind farm connected to an Offshore Transmission System.

There is a single Offshore Power Park Module owned and operated by STAR Power. The Meters have been installed at the Boundary Points. All of the Meters have integral Outstations which are Registered in CMRS as a single Metering System with MSID 1234. All of the physical Meters (M1, M2, M3 and M4) are 4 metering sub systems, referred to as STAR1, STAR2, STAR3 and STAR4.

For this example 1 set of aggregation rules needs to be submitted to calculate the Metered Volumes associated with BM Unit 1.

Aggregation Rules

$$\text{BM Unit 1} = [1234.\text{STAR1.AE} - 1234.\text{STAR1.AI}] + [1234.\text{STAR2.AE} - 1234.\text{STAR2.AI}] + [1234.\text{STAR3.AE} - 1234.\text{STAR3.AI}] + [1234.\text{STAR4.AE} - 1234.\text{STAR4.AI}]$$



4.1.14 The example below shows a simplified offshore wind farm connected to an Offshore Transmission System. The Registrant has chosen to install a single Meter at location M1 and this is therefore the deemed Boundary Point.

As the Meter is not located at the Defined Metering Points the Registrant is required to compensate the Meter readings with values that reflect the power losses between the deemed Boundary Point and the Defined Metering Points.

This may be achieved either within the physical Meter or in the data collection system. For this example the Registrant has applied appropriate compensations within the Meter.

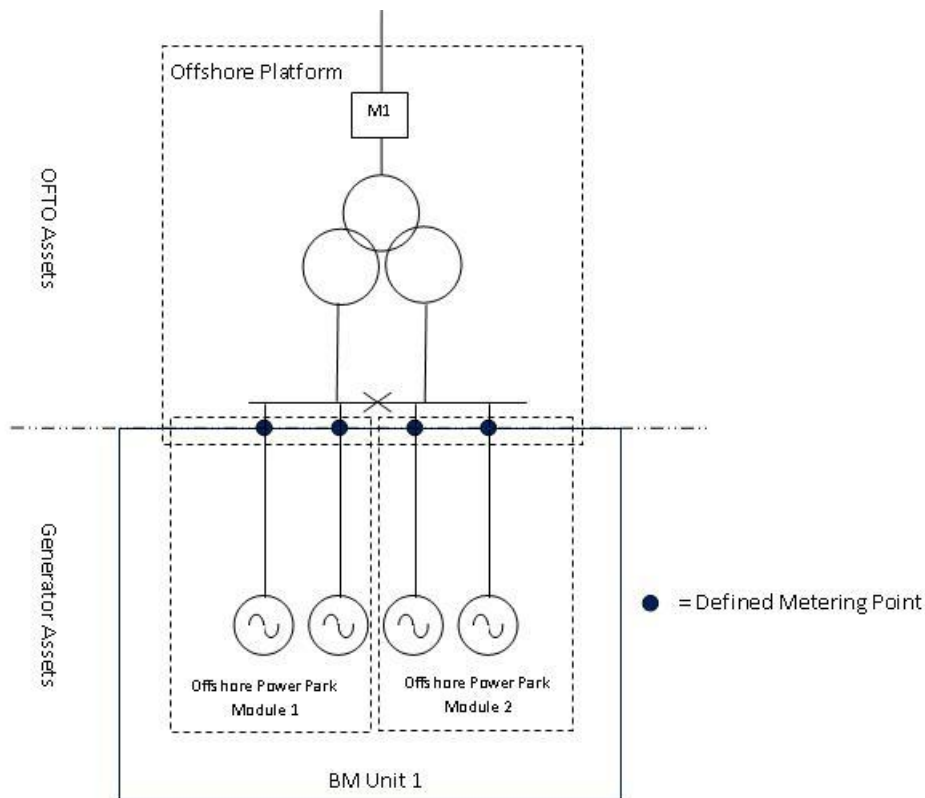
There are two Offshore Power Park Modules owned and operated by STAR Power and these would normally form 2 BM Units. However, in this case, it has been agreed that a single BM Unit is acceptable.

The Meter is Registered in CMRS as a single Metering System with MSID 1234. The physical Meter (M1) is a metering sub system, referred to as STAR1.

For this example 1 set of aggregation rules needs to be submitted to calculate the Metered Volumes associated with BM Unit 1.

Aggregation Rules

BM Unit 1 = [1234.STAR1.AE – 1234.STAR1.AI].



4.1.15 Below is a simplified example of an offshore wind farm connected to an Offshore Transmission System. There are two Offshore Power Park Modules owned and operated by RED Power. The two Offshore Platforms are electrically separate but may be coupled for maintenance and other purposes. All of the Meters in this example have integral Outstations which are Registered in CMRS as a single Metering System with MSID 1234. All of the physical Meters (M1, M2, M3, M4,

M5, M6, M7 and M8) are 8 metering sub systems, referred to as RED1, RED2, RED3, RED4, RED5, RED6, RED7 and RED8.

For this example 2 sets of aggregation rules need to be submitted to calculate the Metered Volumes associated with BM Unit 1 and 2.

Aggregation Rules

BM Unit 1 = [1234.RED1.AE – 1234.RED1.AI] + [1234.RED2.AE – 1234.RED2.AI] +
_____ [1234.RED3.AE – 1234.RED3.AI] + [1234.RED4.AE – 1234.RED4.AI].

BM Unit 2 = [1234.RED5.AE – 1234.RED5.AI] + [1234.RED6.AE – 1234.RED6.AI] +
_____ [1234.RED7.AE – 1234.RED7.AI] + [1234.RED8.AE – 1234.RED8.AI].

In addition, the Registrant has anticipated that the offshore cable to platform 2 will be disconnected for maintenance purposes. To ensure there is no loss of production during this time the Registrant will re-route the volumes associated with BM Unit 2 through BM Unit 1 by closing the switch marked 'Normally Open'. The arrangements for this configuration are shown in the following example; however, the Registrant has chosen to pre-submit aggregation rules for this scenario from the outset as follows:

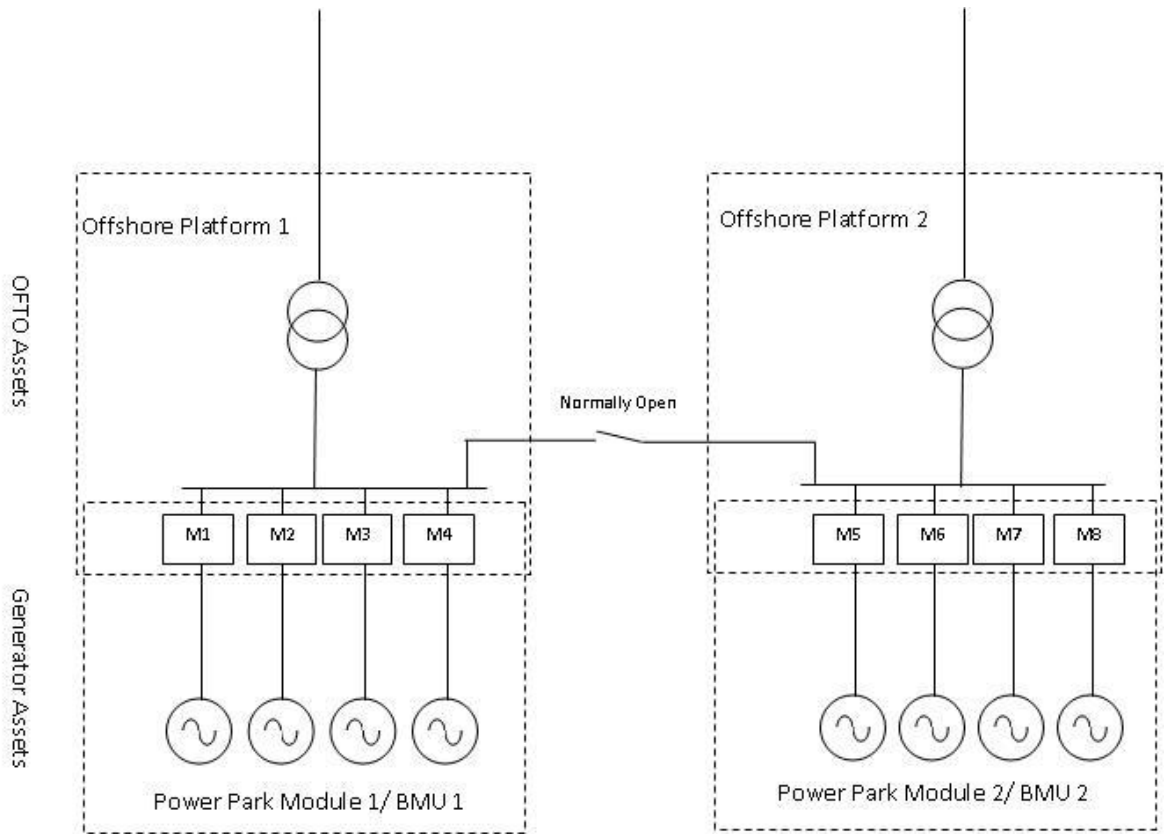
Alternative aggregation rules

BM Unit 1 = [1234.RED1.AE – 1234.RED1.AI] + [1234.RED2.AE – 1234.RED2.AI] +
_____ [1234.RED3.AE – 1234.RED3.AI] + [1234.RED4.AE – 1234.RED4.AI] +
_____ [1234.RED5.AE – 1234.RED5.AI] + [1234.RED6.AE – 1234.RED6.AI] +
_____ [1234.RED7.AE – 1234.RED7.AI] + [1234.RED8.AE – 1234.RED8.AI].

BM Unit 2 = 0.

The alternative aggregation rules will not take effect until the Registrant instructs the CRA to do so by submitting BSCP75/4.4 form.

Other alternative aggregation rules may also be submitted to account for other such anticipated changes to the BM Unit configurations (for example, if the total output is routed via BM Unit 2 because the offshore cable to platform 1 is disconnected).

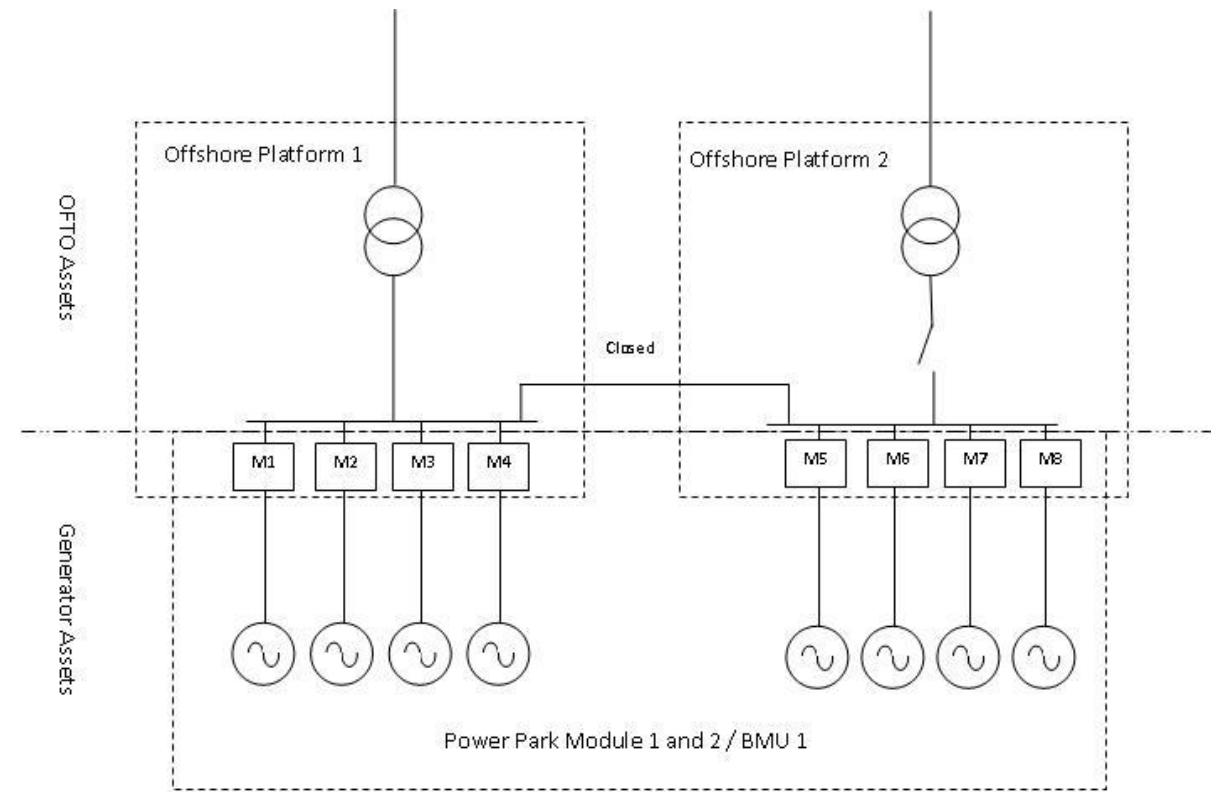


4.1.16 Below are the same arrangements as in the example in section 4.1.15 except the offshore cable to platform 2 has been disconnected for maintenance purposes. The bus section switch has been closed so that the output from BM Unit 2 can be routed via BM Unit 1. In order to reflect the changes to the BM Unit configurations new aggregation rules are required. As the aggregation rules for this new arrangement have already been pre-submitted the Registrant has activated the alternative aggregation rules by submitting BSCP75/4.4 Form.

Aggregation Rules

BM Unit 1 = [1234.RED1.AE – 1234.RED1.AI] + [1234.RED2.AE – 1234.RED2.AI] +
[1234.RED3.AE – 1234.RED3.AI] + [1234.RED4.AE – 1234.RED4.AI] +
[1234.RED5.AE – 1234.RED5.AI] + [1234.RED6.AE – 1234.RED6.AI] +
[1234.RED7. AE – 1234.RED7.AI] + [1234.RED8.AE – 1234.RED8.AI].

BM Unit 2 = 0.



Section 4.2- 4.4 No changes