# SQSS DC Converter Infeed Loss Risk Workshop 5 August 2022

## Context

A workshop was arranged for 5 August to discuss a potential change to the HVDC Converter loss risk in the SQSS. SQSS panel members and some HVDC developers were invited to attend.

The discussion was in two parts:

Treatment of DC bipole with no common mode of failure as two separate poles

Increase of DC Converter loss risk from normal (1320MW) to infrequent (1800MW)

## Request for additional data

In order to assess the above proposals NGESO were requesting additional data:

- Converter failure rates/reliability data
- Anchor drag incident data
- Cost saving data for reduced landing points
- Knowledge of other subsea cable codes of practice

Members of the workshop suggested approaching suppliers such as Hitachi Energy, Siemens and GE for converter failure rates and reliability data and also suggested that HVDC Centre in Cumbernauld could also assist with this data.

Some developers felt that they could share cost saving data for reduced landing points without imparting confidential information.

It was suggested that ESCA (European Subsea Cable Association) and the Crown Estates could provide details of anchor drag incidents and subsea cable codes of practice. DL offered to contact ESCA.

## Detailed discussion re proposed changes

Re the treatment of bipoles with a metallic return, the workshop agreed with the proposal and associated text changes for the definitions. However, the additional text relating to anchor drag risk needs further analysis and discussion for the following reasons:

- Distance from the shore is a factor due to lack of shipping near the coast
- Proximity of shipping lanes should also be considered
- Depth of cables

Also, it was highlighted that shipping collisions with offshore platforms should be considered.

Re the change of the DC Converter loss risk from normal (1320MW) to infrequent (1800MW), developers agreed that any reduction in costs would be welcome but in general all agreed that further assessments with reliability data are required before any change can be implemented.

It was suggested that other developers should be invited to the next workgroup (eg Scotwind) and all participants should forward the invitation to any other parties they consider should be involved.

Participants

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| Roddy Wilson | SSE |
| Bless Kuri | SSE |
| David Lyon | Frontier Power |
| Nicola Barberis Negra | Orsted |
| David Devoy | National Grid Ventures |
| Biljana Stovkojska | BP |
| Darshak Shah | BP |
| Peter Lewis | BP |

NGESO:

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|---|---|
| Rob Wilson | Chair |
| Bieshoy Awad | Proposer |
| Richard Proctor | |
| Terry Baldwin | |
| Fiona Williams | Proposer |