**MOD 0659S:**
**Improvements to the Composite Weather Variable**

3rd October 2018

# Scope of ROM

- Following discussion with MOD659S proposer to clarify scope in mid September ROM has been requested and covers the following areas:

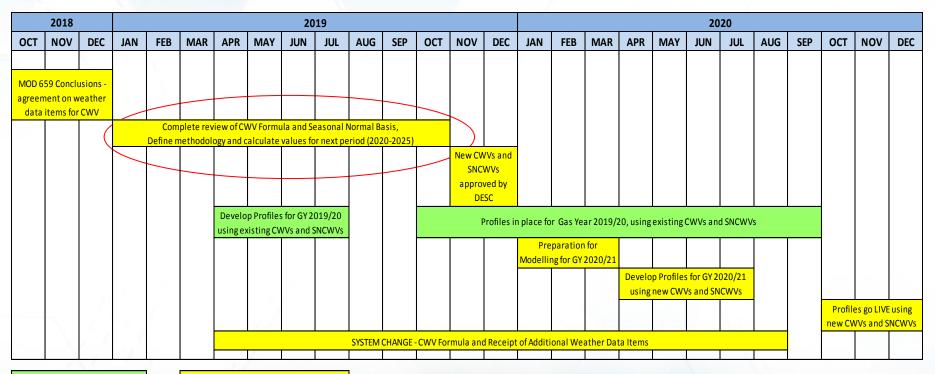- System Impacts (SAP-ISU):
  - Weather Data Feeds:

    Additional 2 weather data items  or  All 4 weather data items received hourly

  - CWV calculation logic – not known how final formula will look so ROM considers impacts to:
    -  1) CW  2) CWV 3) 'Post CWV'

  - Weather Data weightings parameterised

- Weather Data:
  - Historic values of Precipitation and Solar Radiation for CWV optimisation analysis
  - Contractual options of daily provision of weather data post new CWV formula going live

- Timescales:
  - ROM in progress - expected that ROM Template will be available early next week

# Background – Timeline

## High Level Timeline of CWV / SNCWV Review

| 2018 | | | 2019 | | | | | | | | | | | 2020 | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |

MOD 659 Conclusions - agreement on weather data items for CWV

Complete review of CWV Formula and Seasonal Normal Basis, Define methodology and calculate values for next period (2020-2025)

New CWVs and SNCWVs approved by DESC

Develop Profiles for GY 2019/20 using existing CWVs and SNCWVs

Profiles in place for Gas Year 2019/20, using existing CWVs and SNCWVs

Preparation for Modelling for GY 2020/21

Develop Profiles for GY 2020/21 using new CWVs and SNCWVs

Profiles go LIVE using new CWVs and SNCWVs

SYSTEM CHANGE - CWV Formula and Receipt of Additional Weather Data Items

Current CWVs and SNCWVs

Prep. for New CWVs and SNCWVs

XOserve

# Approach – High Level activities - CWV

- **Jan to Oct 2019:**

  > "Complete review of CWV Formula and Seasonal Normal Basis. Define methodology and calculate values for next period (2020-2025)"

- Review of CWV Formula
  - DESC agree approach for reviewing the effectiveness/performance of the CWV Formula *(doc.)*
  - DESC perform and review analysis of the CWV Formula *(analysis)*
  - **KEY MILESTONE**: DESC define a proposed CWV Formula for next period i.e. Gas Year 2020/21

- Optimise parameters within CWV Formula
  - DESC agree approach for optimising the parameters/weightings within agreed CWV Formula *(doc.)*
  - DESC perform and review CWV optimisation analysis *(extensive analysis)*
  - **KEY MILESTONE**: DESC confirm the CWV Formula and parameters for GY 2020/21

- CWV History re-stated using agreed formula

# Approach – High Level activities - SNCWV

- **Jan to Oct 2019:**

  "Complete review of CWV Formula and Seasonal Normal Basis. Define methodology and calculate values for next period (2020-2025)"

- DESC have already agreed that Climate Change Methodology (CCM) output remains fit for purpose and can be used in the next Seasonal Normal review (may need to revisit this if additional weather variables are required)

- Review of SNCWV Formula
  - DESC agree approach for reviewing the effectiveness/performance of the SNCWV values *(.doc)*
  - DESC perform and review analysis of the SNCWV values *(analysis)*
  - **KEY MILESTONE**: DESC define approach for deriving the SNCWV values for GY 2020/21

- Produce SNCWV values (dependency on CWV Formula
  - DESC calculate SNCWV values in line with agreed approach
  - **KEY MILESTONE:** DESC <u>and</u> UNCC approve the SNCWV values for GY 2020/21

XOserve