

## **AERH2S Change Log – April 2026**

### **Changes AERH2S UserGuide (Volume 3):**

Rev 1

- Revised the INPUTS page for the gas AOF from “Wet Gas Release Rate (AOF)” to “Dry Gas Release Rate (AOF)”. This change was also made on the Multi-Zone page for AOF. This change was necessary to simplify the well release inputs with readily available information, specifically the AOF from data sources is recorded on a dry basis. The AOF in ERCBH2S was calculated on a dry basis based upon the entered H2S release rate (assumed dry). Both AERH2S and ERCBH2S adjust the AOF (dry basis) for water content which is entered below gas composition.
- Added link to AER.ca tools folder for where more information may be found.
- Typo: iBIN to BIN, in Section 2.4.
- Update FAQ on page 222, referring to Row 10 for network analysis which has been changed elsewhere in the user guide.

### **Changes AERH2S Technical Reference (Volume 1):**

Rev 1

- Update the gas gathering analysis as per the user guide and remove sections referring to copying the excel formulae from row 10.

### **Changes AERH2S menu:**

v.2.08.0003

- Updated the function GetDuplicates() that is executed during a BATCH page export menu selection. When only a single row was selected to be exported, an error message was displayed “Error 13, type mismatch”. The function now returns zero when only one line exists.

v.2.08.0002

- Revised CalcVol() in PipelineNetwork module to ensure it calculated properly for both gas pipelines and liquid pipelines.

v.2.08.0001

- Updated coding to avoid Microsoft office update redefinition passing ribbon interface variables without the effects of pressure. The corrected function affects both gas and liquid pipelines for the network analysis equivalent volume calculation.
- Corrected displayed MDEBUG setting on AERSLAB page. AERSLAB debug control is set using the ribbon toggle setting and the MDEBUG displayed value is not used internally.

## Changes AERH2S worksheet:

### v.2.08.0003

- Revised the INPUTS page for the gas AOF from “Wet Gas Release Rate (AOF)” to “Dry Gas Release Rate (AOF)”. This change was also made on the Multi-Zone page for AOF. This change was necessary to simplify the well release inputs with readily available information, specifically the AOF from data sources is recorded on a dry basis. The AOF in ERCBH2S was calculated on a dry basis based upon the entered H2S release rate (assumed dry). Both AERH2S and ERCBH2S adjust the AOF (dry basis) for water content which is entered below gas composition.
- Corrected comment on the prompt for liquid wells input of lat/lng that stated ‘enter n/a because not segmented’ which applies to liquid pipelines.
- Corrected warning message for water content in the gas analysis. The warning for a potentially out of bounds entry is now set to the partial pressure of water as displayed in cell I108.
- Upper range for salinity % salt input values has been increased to 25% to allow for hyper-salinity solutions. Entries above 25% are allowed, but a warning message is displayed indicating this is an extreme entry.
- Changed entry for Licensed H2S% for wells, if not known to “NA” rather than entering the expected H2S. Changed the warning message threshold for Wells Expected Maximum H2S to be 100%. The expected H2S concentration can differ from the estimated originally modelled (licensed) H2S value based upon most recent gas analysis.
- Revised the INPUTS page to allow “NA” for new pipelines that do not have licence number yet.
- Increased warning entry limit for wells maximum flow rate. The largest credible range is estimated to be ~200–500 MMscf/d ( $\sim 5,700\text{--}14,200 \times 10^3 \text{ m}^3/\text{d}$  ( $\text{e}^3 \text{ m}^3/\text{d}$ )). The warning upper limit has been adjusted from  $10 \times 10^3 \text{ m}^3/\text{d}$  to  $15 \times 10^3 \text{ m}^3/\text{d}$ .

### v.2.08.0002

- Corrected displayed MDEBUG setting on AERSLAB page. AERSLAB debug control is set using the ribbon toggle setting and the MDEBUG displayed value is not used internally.
- Updated the displayed number of digits on HAZARDS page for user defined thresholds. The threshold now displays three significant digits instead of zero.

### v.2.08.0001

- Corrected lines for titles for well, pipeline and liquid on ERP Summary Name of Well/Pipeline licence and legal surface location of well or pipeline line number.
- Corrected link for title on GAS\_PIPELINE, for Legal Surface Location of Pipeline Segment Start.
- Changed the displayed setting of mDEBUG on AERSLAB\_INPUT page from 1 to 0. The actual value being used is determined by the AERH2S menu debug option toggle.

### **Pending Changes/Suggestions**

- Turn on multi-zone AOF page for the liquid wells.
- Check wording 'Used for level designation' comments for wells, whereas this should be used for pipeline only.
- Since we are requiring mitigation and that leaving all mitigation settings blank (is identical to 'no mitigation'); should we just remove the 'No Mitigation' option.
- Possibly, error code 1009 (1000 + 8 + 1). Error 8 should not be occurring. Check why.