2.1) If the data ESA exceeds the largest table ESA_DAC (first row), use the PCEM, SCEM and COIN background values from that first row.

2.2) If the data ESA is less than the smallest table ESA_DAC (last row), use the PCEM, SCEM and COIN background values from that last row.

3) If step 2 does not complete, interpolate over adjacent rows spanning ESA:

3.1) Locate the two adjacent rows with ESA_DAC values spanning the data ESA

3.2) Use the date ESA value and the row ESA_DAC vales to linearly interpolate between the PCEM, SCEM, and COIN background values of those two rows.

3.3) Check data RPA and row RPA_DEC values for zeroes.

3.3.1) If the data RPA value is zero, use zero for all background values. Skip all remaining steps.

3.3.2) If the RPA_DAC value is zero in the row with the higher ESA_DAC, use the PCEM, SCEM, and COIN background values from the row with the lower ESA_DAC. Skip all remaining steps.

3.3.2) If the RPA_DAC value is zero in the row with the lower ESA_DAC, use the PCEM, SCEM, and COIN background values from the row with the higher ESA_DAC. Skip all remaining steps. *Missing "d"*

4) Do not subtract any background from SWAP data

Refer also to SOC_INST_ICD.* and SWAP_CAL.* documents for further details regarding the use of this file.

```
                                    "
OBJECT                    = COLUMN
  NAME                    = "ENERGY"
  START_BYTE              = 1
  BYTES                   = 12
  COLUMN_NUMBER           = 1
  DATA_TYPE               = ASCII_REAL
  FORMAT                  = "F12.4"
  DESCRIPTION             = "Energy for row.  Value is not used"
END_OBJECT                = COLUMN

OBJECT                    = COLUMN
  NAME                    = "ESA_DAC"
  START_BYTE              = 13
  BYTES                   = 8
  COLUMN_NUMBER           = 2
  DATA_TYPE               = ASCII_INTEGER
  FORMAT                  = "I8"
  DESCRIPTION             = "ESA DAC for row; used to select contiguous
                             rows for linear interpolation, and for the
                             calculation of the interpolation.
                             "
END_OBJECT                = COLUMN
```