

- 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 values 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.
- 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
```