

Table 2. Reference Area (SU5) Systematic Sample Results

| Sample ID                                  | Ra-226         | Th-228                                | Th-230        | Th-232        | U-234        | U-235        | U-238        | Total-U        | SOF   | ALPHA        | BETA        |
|--|----------------|---------------------------------------|---------------|---------------|--------------|--------------|--------------|----------------|-------|--------------|-------------|
| WEAC-FS-SU5-1-105                          | 1.04           | 1.61                                  | 0.82          | 0.705         | 0.898        | 0.204        | 1.05         | 2.15           | 0.11  |              |             |
| WEAC-FS-SU5-2-106                          | 0.931          | 1.25                                  | 0.96          | 1.15          | 0.83         | 0.0584       | 0.965        | 1.85           | 0.11  |              |             |
| WEAC-FS-SU5-3-107                          | 0.799          | 1.62                                  | 1.33          | 1.41          | 1.26         | 0.167        | 0.831        | 2.26           | 0.11  | 19.7         | 22.9        |
| WEAC-FS-SU5-4-108                          | 0.772          | 1.97                                  | 0.434         | 1.34          | 0.90         | 0.2          | 1.8          | 2.90           | 0.08  | 18.7         | 23.1        |
| WEAC-FS-SU5-5-109                          | 0.85           | 0.937                                 | 0.647         | 0.923         | 1.16         | 0.346        | 0.961        | 2.47           | 0.09  |              |             |
| WEAC-FS-SU5-6-110                          | 0.678          | 1.5                                   | 0.738         | 0.447         | 0.807        | 0.0203       | 0.734        | 1.56           | 0.08  |              |             |
| WEAC-FS-SU5-7-111                          | 0.768          | 1.3                                   | 0.928         | 0.821         | 1.04         | 0.0726       | 1.3          | 2.41           | 0.09  |              |             |
| WEAC-FS-SU5-8-113                          | 0.796          | 1.42                                  | 0.964         | 0.946         | 1.02         | 0.0606       | 1.27         | 2.35           | 0.10  | 23.1         | 28.7        |
| WEAC-FS-SU5-9-114                          | 0.724          | 0.773                                 | 1.02          | 1.03          | 1.04         | 0.182        | 0.811        | 2.03           | 0.09  |              |             |
| WEAC-FS-SU5-10-115                         | 0.721          | 1.49                                  | 0.613         | 0.598         | 0.507        | 0.335        | 0.736        | 1.58           | 0.08  |              |             |
| WEAC-FS-SU5-11-116                         | 0.926          | 1.71                                  | 1.02          | 0.992         | 1.41         | 0.0555       | 1.17         | 2.64           | 0.11  |              |             |
| WEAC-FS-SU5-12-117                         | 0.618          | 0.797                                 | 0.318         | 0.653         | 0.416        | 0.0782       | 0.879        | 1.37           | 0.06  | 19.8         | 25.6        |
| WEAC-FS-SU5-13-118                         | 1.22           | 1.14                                  | 0.895         | 0.998         | 0.935        | 0.24         | 0.664        | 1.84           | 0.13  |              |             |
| WEAC-FS-SU5-14-119                         | 0.631          | 0.99                                  | 0.746         | 0.309         | 1.09         | 0.243        | 0.936        | 2.27           | 0.08  | 25.7         | 35.6        |
| WEAC-FS-SU5-15-121                         | 0.993          | 1.16                                  | 0.87          | 1.03          | 0.659        | 0.222        | 1.82         | 2.70           | 0.11  |              |             |
| WEAC-FS-SU5-16-122                         | 1.02           | 1.33                                  | 0.788         | 0.546         | 0.856        | 0.0959       | 1.28         | 2.23           | 0.11  | 23.4         | 26.2        |
| <b>Reference Area Summary</b>              | <b>Ra-226</b>  | <b>Th-228</b>                         | <b>Th-230</b> | <b>Th-232</b> | <b>U-234</b> | <b>U-235</b> | <b>U-238</b> | <b>Total-U</b> |       | <b>ALPHA</b> | <b>BETA</b> |
| Count                                      | 16.00          | 16.00                                 | 16.00         | 16.00         | 16.00        | 16.00        | 16.00        | 16.00          | 16.00 | 6.00         | 6.00        |
| Average                                    | 0.84           | 1.31                                  | 0.82          | 0.87          | 0.93         | 0.16         | 1.08         | 2.16           | 0.10  | 21.73        | 27.02       |
| SD,n-1                                     | 0.17           | 0.34                                  | 0.24          | 0.31          | 0.26         | 0.10         | 0.35         | 0.43           | 0.02  | 2.74         | 4.72        |
| 1.96SD,n-1                                 | 0.33           | 0.66                                  | 0.48          | 0.61          | 0.51         | 0.20         | 0.69         | 0.85           | 0.03  | 5.36         | 9.25        |
| Ave + 1.96SD, n-1                          | 1.17           | 1.97                                  | 1.30          | 1.47          | 1.43         | 0.36         | 1.76         | 3.01           | 0.13  | 27.10        | 36.27       |
| <b>Initial Assessment:</b>                 | Reference Area |                                       |               |               |              |              |              |                |       | SOF          | Net SOF     |
| Net Residual Average Activity (pCi/g):     | 0.00           | 0.00                                  | 0.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00           | 0.00  | 0.00         | 0.00        |
| DCGL <sub>w</sub> (25 mrem/y):             | 12             | N/A                                   | 37            | N/A           | N/A          | N/A          | N/A          | 560            |       | 1            | 1           |
| Fraction (A/CG):                           | 0.00           |                                       | 0.00          |               |              |              |              | 0.00           |       | 0.00         | 0.00        |
| SOF (CGw):                                 | 0.00           |                                       |               |               |              |              |              |                |       |              |             |
| SOF (DCGL <sub>w</sub> ) in terms of Dose: | 0.00           | mrem/y, max dose over next 1000 years |               |               |              |              |              |                |       |              |             |