Release notes for ENDF/B Development e-076_Os_000 evaluation

October 13, 2016

- `fudge-4.0` Warnings:

  1. Mislabled emitted particle
     Reading ENDF file: ../e-076_Os_000.endf (Error # 0): ZAP messed up

     ```
     WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
     ```

  2. FIXME: Generic fudge unimplemented message
     reaction label 1: e- + Os + gamma [bremsstrahlung] / Product: e- (Error # 0): Generic unimp (c)

     ```
     WARNING: Checking not yet implemented for energyLoss type data
     ```

  3. FIXME: Generic fudge unimplemented message
     reaction label 2: e- + Os [excitation] / Product: e- (Error # 0): Generic unimp (c)

     ```
     WARNING: Checking not yet implemented for energyLoss type data
     ```

- `fudge-4.0` Errors:

  1. Calculated and tabulated thresholds don't agree
     reaction label 0: e- + Os [large angle Coulomb scattering] / Cross section: (Error # 0): Threshold mismatch

     ```
     WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
     ```

  2. Calculated and tabulated thresholds don't agree
     reaction label 1: e- + Os + gamma [bremsstrahlung] / Cross section: (Error # 0): Threshold mismatch

     ```
     WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
     ```

  3. Calculated and tabulated thresholds don't agree
     reaction label 2: e- + Os [excitation] / Cross section: (Error # 0): Threshold mismatch

     ```
     WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10. eV!
     ```

  4. Calculated and tabulated thresholds don't agree
     reaction label 3: e- + e- + Os1s1/2 / Cross section: (Error # 0): Threshold mismatch

     ```
     WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 74066. eV!
     ```

  5. Calculated and tabulated thresholds don't agree
     reaction label 4: e- + e- + Os2s1/2 / Cross section: (Error # 0): Threshold mismatch

     ```
     WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12950. eV!
     ```

  6. Calculated and tabulated thresholds don't agree
     reaction label 5: e- + e- + Os2p1/2 / Cross section: (Error # 0): Threshold mismatch

     ```
     WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12424. eV!
     ```

  7. Calculated and tabulated thresholds don't agree
     reaction label 6: e- + e- + Os2p3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10877. eV!
```

8. Calculated and tabulated thresholds don't agree
   reaction label 7: e- + e- + Os3s1/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3030. eV!
```

9. Calculated and tabulated thresholds don't agree
   reaction label 8: e- + e- + Os3p1/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2790.2 eV!
```

10. Calculated and tabulated thresholds don't agree
    reaction label 9: e- + e- + Os3p3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2451.7 eV!
```

11. Calculated and tabulated thresholds don't agree
    reaction label 10: e- + e- + Os3d3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2044.5 eV!
```

12. Calculated and tabulated thresholds don't agree
    reaction label 11: e- + e- + Os3d5/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1970.9 eV!
```

13. Calculated and tabulated thresholds don't agree
    reaction label 12: e- + e- + Os4s1/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 648.03 eV!
```

14. Calculated and tabulated thresholds don't agree
    reaction label 13: e- + e- + Os4p1/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 546.0700000000001 eV!
```

15. Calculated and tabulated thresholds don't agree
    reaction label 14: e- + e- + Os4p3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 466.23 eV!
```

16. Calculated and tabulated thresholds don't agree
    reaction label 15: e- + e- + Os4d3/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 297.08 eV!
```

17. Calculated and tabulated thresholds don't agree
    reaction label 16: e- + e- + Os4d5/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 282.29 eV!
```

18. Calculated and tabulated thresholds don't agree
    reaction label 17: e- + e- + Os4f5/2 / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 66.20999999999999 eV!
```

19. Calculated and tabulated thresholds don't agree
    reaction label 18: e- + e- + Os4f7/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 63.26 eV!
    ```

20. Calculated and tabulated thresholds don't agree
    reaction label 19: e- + e- + Os5s1/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 98.12 eV!
    ```

21. Calculated and tabulated thresholds don't agree
    reaction label 20: e- + e- + Os5p1/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 66.01000000000001 eV!
    ```

22. Calculated and tabulated thresholds don't agree
    reaction label 21: e- + e- + Os5p3/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.15 eV!
    ```

23. Calculated and tabulated thresholds don't agree
    reaction label 22: e- + e- + Os5d3/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.79 eV!
    ```

24. Calculated and tabulated thresholds don't agree
    reaction label 23: e- + e- + Os5d5/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 9.6 eV!
    ```

25. Calculated and tabulated thresholds don't agree
    reaction label 24: e- + e- + Os6s1/2 / Cross section: (Error # 0): Threshold mismatch

    ```
    WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.390000000000001 eV!
    ```

- `xsectplotter` Warnings:

  1. Mislabled emitted particle
     Error: ZAP messed up

     ```
     stderr while processing crossSection

            WARNING: photon most likely labelled as an electron (ZAP = 11), converting to ZAP = 0
     ... [4 more lines]
     ```