**Table 1 : Coefficients of Reactivity/**

**Таблица 1 : Коэффиценты реактивности ( альбомные значения )**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Teff** | **∂/∂, %/g/cm3** | **∂/∂ТН2О, \*103% / ̊ C** | **∂/∂N, \*103%/MW** | **∂/∂С , %/g/kg** | **∂/∂Р , \*103 %/bar** |
| 01.02.2014 00:00 | 297.6 | 26.52 | -58.07 | -0.62 | -2.12 | 5.82 |
| 02.02.2014 21:36 | 299.2 | 26.63 | -58.33 | -0.62 | -2.12 | 5.85 |
| 02.02.2014 21:52 | 299.2 | 26.63 | -58.33 | -0.62 | -2.12 | 5.85 |
| 03.02.2014 09:00 | 299.5 | 26.66 | -58.38 | -0.62 | -2.12 | 5.85 |
| 03.02.2014 21:52 | 299.8 | 26.68 | -58.43 | -0.62 | -2.12 | 5.85 |
| 04.02.2014 14:10 | 300.3 | 26.71 | -58.51 | -0.62 | -2.12 | 5.86 |
| 05.02.2014 02:54 | 300.3 | 26.71 | -58.51 | -0.62 | -2.12 | 5.86 |

**Table 2 :** PRESSURIZER LEVEL /

**Таблица 2 : Уровень в компенсаторе давления**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 01.02.2014 00:00 | 02.02.2014 21:36 | 02.02.2014 21:52 | 03.02.2014 09:00 | 03.02.2014 21:52 | 04.02.2014 14:10 | 05.02.2014 02:54 |
| PRESSURIZER LEVEL, m | 7.68 | 7.66 | 6.87 | 7.65 | 7.74 | 7.65 | 5.5 |

**Table 3 : Burn up , MW \* day/kg U**

**Таблица 3 : Выгорание , МВт \* сут./кг U ( среднее значение по ТВС)**

| **No:** | **Coord.** | 01.02.2014 00:00 | 02.02.2014 21:36 | 02.02.2014 21:52 | 03.02.2014 09:00 | 03.02.2014 21:52 | 04.02.2014 14:10 | 05.02.2014 02:54 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 15--24 | 5.243 | 5.298 | 5.298 | 5.307 | 5.319 | 5.335 | 5.335 |
| 2 | 15--26 | 6.37 | 6.435 | 6.435 | 6.446 | 6.461 | 6.479 | 6.479 |
| 3 | 15--28 | 6.561 | 6.626 | 6.626 | 6.637 | 6.652 | 6.67 | 6.67 |
| 4 | 15--30 | 6.574 | 6.639 | 6.639 | 6.65 | 6.665 | 6.683 | 6.683 |
| 5 | 15--32 | 6.406 | 6.471 | 6.471 | 6.483 | 6.498 | 6.516 | 6.516 |
| 6 | 15--34 | 5.264 | 5.319 | 5.319 | 5.329 | 5.341 | 5.357 | 5.357 |
| 7 | 14--21 | 5.237 | 5.292 | 5.292 | 5.301 | 5.313 | 5.328 | 5.328 |
| 8 | 14--23 | 6.591 | 6.662 | 6.662 | 6.673 | 6.689 | 6.708 | 6.708 |
| 9 | 14--25 | 6.943 | 7.015 | 7.015 | 7.027 | 7.044 | 7.063 | 7.063 |
| 10 | 14--27 | 6.631 | 6.702 | 6.702 | 6.714 | 6.73 | 6.749 | 6.749 |
| 11 | 14--29 | 7.145 | 7.217 | 7.217 | 7.23 | 7.246 | 7.267 | 7.267 |
| 12 | 14--31 | 6.636 | 6.706 | 6.706 | 6.718 | 6.735 | 6.755 | 6.755 |
| 13 | 14--33 | 6.933 | 7.005 | 7.005 | 7.018 | 7.035 | 7.055 | 7.055 |
| 14 | 14--35 | 6.626 | 6.695 | 6.695 | 6.708 | 6.724 | 6.745 | 6.745 |
| 15 | 14--37 | 5.353 | 5.407 | 5.407 | 5.417 | 5.43 | 5.446 | 5.446 |
| 16 | 13--20 | 6.361 | 6.426 | 6.426 | 6.437 | 6.451 | 6.469 | 6.469 |
| 17 | 13--22 | 6.962 | 7.034 | 7.034 | 7.046 | 7.062 | 7.082 | 7.082 |
| 18 | 13--24 | 5.842 | 5.906 | 5.906 | 5.917 | 5.931 | 5.949 | 5.949 |
| 19 | 13--26 | 5.796 | 5.86 | 5.86 | 5.871 | 5.885 | 5.903 | 5.903 |
| 20 | 13--28 | 5.84 | 5.903 | 5.903 | 5.914 | 5.929 | 5.947 | 5.947 |
| 21 | 13--30 | 5.845 | 5.909 | 5.909 | 5.92 | 5.935 | 5.953 | 5.953 |
| 22 | 13--32 | 5.762 | 5.826 | 5.826 | 5.837 | 5.852 | 5.87 | 5.87 |
| 23 | 13--34 | 5.76 | 5.823 | 5.823 | 5.835 | 5.849 | 5.867 | 5.867 |
| 24 | 13--36 | 7.037 | 7.109 | 7.109 | 7.123 | 7.139 | 7.16 | 7.16 |
| 25 | 13--38 | 6.561 | 6.626 | 6.626 | 6.638 | 6.653 | 6.672 | 6.672 |
| 26 | 12--19 | 6.594 | 6.659 | 6.659 | 6.67 | 6.684 | 6.702 | 6.702 |
| 27 | 12--21 | 6.701 | 6.772 | 6.772 | 6.784 | 6.799 | 6.819 | 6.819 |
| 28 | 12--23 | 5.868 | 5.934 | 5.934 | 5.944 | 5.958 | 5.976 | 5.976 |
| 29 | 12--25 | 6.589 | 6.665 | 6.665 | 6.677 | 6.694 | 6.715 | 6.715 |
| 30 | 12--27 | 6.549 | 6.623 | 6.623 | 6.636 | 6.653 | 6.673 | 6.673 |
| 31 | 12--29 | 6.909 | 6.983 | 6.983 | 6.994 | 7.012 | 7.032 | 7.032 |
| 32 | 12--31 | 6.571 | 6.645 | 6.645 | 6.658 | 6.675 | 6.696 | 6.696 |
| 33 | 12--33 | 6.468 | 6.542 | 6.542 | 6.555 | 6.573 | 6.594 | 6.594 |
| 34 | 12--35 | 5.824 | 5.888 | 5.888 | 5.899 | 5.914 | 5.932 | 5.932 |
| 35 | 12--37 | 6.792 | 6.863 | 6.863 | 6.876 | 6.892 | 6.913 | 6.913 |
| 36 | 12--39 | 6.74 | 6.805 | 6.805 | 6.817 | 6.832 | 6.851 | 6.851 |
| 37 | 11--18 | 6.605 | 6.67 | 6.67 | 6.68 | 6.694 | 6.712 | 6.712 |
| 38 | 11--20 | 7.214 | 7.288 | 7.288 | 7.3 | 7.316 | 7.336 | 7.336 |
| 39 | 11--22 | 5.962 | 6.028 | 6.028 | 6.038 | 6.052 | 6.07 | 6.07 |
| 40 | 11--24 | 6.699 | 6.775 | 6.775 | 6.787 | 6.804 | 6.825 | 6.825 |
| 41 | 11--26 | 5.912 | 5.979 | 5.979 | 5.989 | 6.004 | 6.022 | 6.022 |
| 42 | 11--28 | 5.966 | 6.031 | 6.031 | 6.042 | 6.057 | 6.075 | 6.075 |
| 43 | 11--30 | 5.949 | 6.014 | 6.014 | 6.025 | 6.04 | 6.058 | 6.058 |
| 44 | 11--32 | 5.829 | 5.894 | 5.894 | 5.905 | 5.92 | 5.938 | 5.938 |
| 45 | 11--34 | 6.585 | 6.659 | 6.659 | 6.672 | 6.69 | 6.711 | 6.711 |
| 46 | 11--36 | 5.914 | 5.978 | 5.978 | 5.989 | 6.004 | 6.022 | 6.022 |
| 47 | 11--38 | 7.298 | 7.371 | 7.371 | 7.384 | 7.401 | 7.422 | 7.422 |
| 48 | 11--40 | 6.719 | 6.783 | 6.783 | 6.795 | 6.81 | 6.828 | 6.828 |
| 49 | 10--17 | 6.424 | 6.489 | 6.489 | 6.5 | 6.514 | 6.532 | 6.532 |
| 50 | 10--19 | 6.652 | 6.723 | 6.723 | 6.734 | 6.75 | 6.769 | 6.769 |
| 51 | 10--21 | 5.899 | 5.964 | 5.964 | 5.974 | 5.989 | 6.006 | 6.006 |
| 52 | 10--23 | 6.975 | 7.05 | 7.05 | 7.061 | 7.078 | 7.098 | 7.098 |
| 53 | 10--25 | 6.025 | 6.091 | 6.091 | 6.102 | 6.117 | 6.135 | 6.135 |
| 54 | 10--27 | 7.375 | 7.453 | 7.453 | 7.465 | 7.483 | 7.504 | 7.504 |
| 55 | 10--29 | 6.932 | 7.005 | 7.005 | 7.017 | 7.033 | 7.053 | 7.053 |
| 56 | 10--31 | 7.3 | 7.377 | 7.377 | 7.39 | 7.407 | 7.428 | 7.428 |
| 57 | 10--33 | 5.935 | 6 | 6 | 6.011 | 6.026 | 6.044 | 6.044 |
| 58 | 10--35 | 6.903 | 6.976 | 6.976 | 6.988 | 7.005 | 7.026 | 7.026 |
| 59 | 10--37 | 5.916 | 5.98 | 5.98 | 5.991 | 6.006 | 6.024 | 6.024 |
| 60 | 10--39 | 6.762 | 6.832 | 6.832 | 6.845 | 6.861 | 6.882 | 6.882 |
| 61 | 10--41 | 6.498 | 6.562 | 6.562 | 6.574 | 6.588 | 6.607 | 6.607 |
| 62 | 09--16 | 5.27 | 5.326 | 5.326 | 5.334 | 5.347 | 5.362 | 5.362 |
| 63 | 09--18 | 6.944 | 7.017 | 7.017 | 7.029 | 7.045 | 7.065 | 7.065 |
| 64 | 09--20 | 5.786 | 5.851 | 5.851 | 5.861 | 5.876 | 5.893 | 5.893 |
| 65 | 09--22 | 6.636 | 6.712 | 6.712 | 6.724 | 6.741 | 6.761 | 6.761 |
| 66 | 09--24 | 6.017 | 6.083 | 6.083 | 6.094 | 6.109 | 6.126 | 6.126 |
| 67 | 09--26 | 6.982 | 7.056 | 7.056 | 7.067 | 7.084 | 7.104 | 7.104 |
| 68 | 09--28 | 6.064 | 6.128 | 6.128 | 6.139 | 6.153 | 6.171 | 6.171 |
| 69 | 09--30 | 6.063 | 6.128 | 6.128 | 6.139 | 6.154 | 6.172 | 6.172 |
| 70 | 09--32 | 6.915 | 6.988 | 6.988 | 7 | 7.017 | 7.038 | 7.038 |
| 71 | 09--34 | 5.951 | 6.016 | 6.016 | 6.026 | 6.041 | 6.059 | 6.059 |
| 72 | 09--36 | 6.625 | 6.699 | 6.699 | 6.712 | 6.729 | 6.75 | 6.75 |
| 73 | 09--38 | 5.831 | 5.895 | 5.895 | 5.906 | 5.92 | 5.938 | 5.938 |
| 74 | 09--40 | 6.988 | 7.06 | 7.06 | 7.072 | 7.089 | 7.109 | 7.109 |
| 75 | 09--42 | 5.27 | 5.324 | 5.324 | 5.333 | 5.346 | 5.361 | 5.361 |
| 76 | 08--17 | 6.647 | 6.718 | 6.718 | 6.729 | 6.745 | 6.764 | 6.764 |
| 77 | 08--19 | 5.78 | 5.844 | 5.844 | 5.854 | 5.868 | 5.885 | 5.885 |
| 78 | 08--21 | 6.515 | 6.59 | 6.59 | 6.602 | 6.619 | 6.639 | 6.639 |
| 79 | 08--23 | 5.926 | 5.993 | 5.993 | 6.004 | 6.019 | 6.037 | 6.037 |
| 80 | 08--25 | 7.385 | 7.463 | 7.463 | 7.476 | 7.493 | 7.514 | 7.514 |
| 81 | 08--27 | 6.101 | 6.167 | 6.167 | 6.177 | 6.192 | 6.209 | 6.209 |
| 82 | 08--29 | 7.164 | 7.24 | 7.24 | 7.252 | 7.27 | 7.29 | 7.29 |
| 83 | 08--31 | 6.081 | 6.146 | 6.146 | 6.157 | 6.172 | 6.189 | 6.189 |
| 84 | 08--33 | 7.332 | 7.409 | 7.409 | 7.422 | 7.439 | 7.461 | 7.461 |
| 85 | 08--35 | 5.88 | 5.945 | 5.945 | 5.956 | 5.971 | 5.989 | 5.989 |
| 86 | 08--37 | 6.547 | 6.621 | 6.621 | 6.634 | 6.651 | 6.672 | 6.672 |
| 87 | 08--39 | 5.776 | 5.838 | 5.838 | 5.849 | 5.863 | 5.881 | 5.881 |
| 88 | 08--41 | 6.6 | 6.668 | 6.668 | 6.68 | 6.696 | 6.716 | 6.716 |
| 89 | 07--16 | 5.403 | 5.458 | 5.458 | 5.467 | 5.479 | 5.494 | 5.494 |
| 90 | 07--18 | 7.077 | 7.15 | 7.15 | 7.162 | 7.178 | 7.198 | 7.198 |
| 91 | 07--20 | 5.861 | 5.927 | 5.927 | 5.937 | 5.951 | 5.969 | 5.969 |
| 92 | 07--22 | 6.669 | 6.746 | 6.746 | 6.757 | 6.774 | 6.795 | 6.795 |
| 93 | 07--24 | 6.006 | 6.072 | 6.072 | 6.082 | 6.097 | 6.115 | 6.115 |
| 94 | 07--26 | 6.981 | 7.056 | 7.056 | 7.068 | 7.084 | 7.105 | 7.105 |
| 95 | 07--28 | 6.102 | 6.169 | 6.169 | 6.179 | 6.194 | 6.212 | 6.212 |
| 96 | 07--30 | 6.095 | 6.161 | 6.161 | 6.172 | 6.186 | 6.204 | 6.204 |
| 97 | 07--32 | 6.954 | 7.028 | 7.028 | 7.04 | 7.057 | 7.077 | 7.077 |
| 98 | 07--34 | 5.971 | 6.036 | 6.036 | 6.047 | 6.062 | 6.08 | 6.08 |
| 99 | 07--36 | 6.587 | 6.661 | 6.661 | 6.673 | 6.69 | 6.711 | 6.711 |
| 100 | 07--38 | 5.783 | 5.846 | 5.846 | 5.857 | 5.871 | 5.889 | 5.889 |
| 101 | 07--40 | 6.972 | 7.043 | 7.043 | 7.055 | 7.071 | 7.091 | 7.091 |
| 102 | 07--42 | 5.279 | 5.332 | 5.332 | 5.342 | 5.354 | 5.369 | 5.369 |
| 103 | 06--17 | 6.632 | 6.697 | 6.697 | 6.708 | 6.722 | 6.74 | 6.74 |
| 104 | 06--19 | 6.842 | 6.914 | 6.914 | 6.925 | 6.941 | 6.96 | 6.96 |
| 105 | 06--21 | 5.977 | 6.042 | 6.042 | 6.052 | 6.066 | 6.084 | 6.084 |
| 106 | 06--23 | 6.994 | 7.069 | 7.069 | 7.08 | 7.097 | 7.117 | 7.117 |
| 107 | 06--25 | 6.005 | 6.071 | 6.071 | 6.082 | 6.096 | 6.114 | 6.114 |
| 108 | 06--27 | 7.356 | 7.434 | 7.434 | 7.447 | 7.464 | 7.485 | 7.485 |
| 109 | 06--29 | 6.956 | 7.03 | 7.03 | 7.042 | 7.059 | 7.079 | 7.079 |
| 110 | 06--31 | 7.349 | 7.427 | 7.427 | 7.439 | 7.457 | 7.478 | 7.478 |
| 111 | 06--33 | 5.98 | 6.045 | 6.045 | 6.056 | 6.071 | 6.089 | 6.089 |
| 112 | 06--35 | 6.92 | 6.993 | 6.993 | 7.004 | 7.021 | 7.041 | 7.041 |
| 113 | 06--37 | 5.846 | 5.909 | 5.909 | 5.92 | 5.934 | 5.952 | 5.952 |
| 114 | 06--39 | 6.616 | 6.686 | 6.686 | 6.698 | 6.713 | 6.733 | 6.733 |
| 115 | 06--41 | 6.426 | 6.49 | 6.49 | 6.501 | 6.515 | 6.533 | 6.533 |
| 116 | 05--18 | 6.778 | 6.843 | 6.843 | 6.854 | 6.868 | 6.886 | 6.886 |
| 117 | 05--20 | 7.325 | 7.399 | 7.399 | 7.411 | 7.427 | 7.447 | 7.447 |
| 118 | 05--22 | 5.99 | 6.054 | 6.054 | 6.064 | 6.078 | 6.095 | 6.095 |
| 119 | 05--24 | 6.667 | 6.743 | 6.743 | 6.754 | 6.771 | 6.791 | 6.791 |
| 120 | 05--26 | 5.877 | 5.944 | 5.944 | 5.954 | 5.969 | 5.987 | 5.987 |
| 121 | 05--28 | 5.96 | 6.026 | 6.026 | 6.036 | 6.051 | 6.069 | 6.069 |
| 122 | 05--30 | 5.975 | 6.04 | 6.04 | 6.051 | 6.065 | 6.083 | 6.083 |
| 123 | 05--32 | 5.88 | 5.946 | 5.946 | 5.957 | 5.971 | 5.989 | 5.989 |
| 124 | 05--34 | 6.63 | 6.704 | 6.704 | 6.716 | 6.733 | 6.754 | 6.754 |
| 125 | 05--36 | 5.871 | 5.934 | 5.934 | 5.945 | 5.959 | 5.977 | 5.977 |
| 126 | 05--38 | 7.154 | 7.226 | 7.226 | 7.238 | 7.254 | 7.274 | 7.274 |
| 127 | 05--40 | 6.574 | 6.638 | 6.638 | 6.649 | 6.664 | 6.682 | 6.682 |
| 128 | 04--19 | 6.677 | 6.742 | 6.742 | 6.752 | 6.766 | 6.784 | 6.784 |
| 129 | 04--21 | 6.734 | 6.805 | 6.805 | 6.816 | 6.831 | 6.85 | 6.85 |
| 130 | 04--23 | 5.85 | 5.915 | 5.915 | 5.925 | 5.939 | 5.956 | 5.956 |
| 131 | 04--25 | 6.518 | 6.593 | 6.593 | 6.605 | 6.622 | 6.642 | 6.642 |
| 132 | 04--27 | 6.555 | 6.63 | 6.63 | 6.642 | 6.658 | 6.678 | 6.678 |
| 133 | 04--29 | 6.92 | 6.993 | 6.993 | 7.004 | 7.021 | 7.041 | 7.041 |
| 134 | 04--31 | 6.638 | 6.712 | 6.712 | 6.725 | 6.741 | 6.762 | 6.762 |
| 135 | 04--33 | 6.567 | 6.641 | 6.641 | 6.653 | 6.67 | 6.69 | 6.69 |
| 136 | 04--35 | 5.815 | 5.878 | 5.878 | 5.889 | 5.903 | 5.921 | 5.921 |
| 137 | 04--37 | 6.664 | 6.734 | 6.734 | 6.746 | 6.761 | 6.781 | 6.781 |
| 138 | 04--39 | 6.57 | 6.633 | 6.633 | 6.644 | 6.659 | 6.677 | 6.677 |
| 139 | 03--20 | 6.374 | 6.438 | 6.438 | 6.448 | 6.462 | 6.48 | 6.48 |
| 140 | 03--22 | 6.956 | 7.028 | 7.028 | 7.04 | 7.055 | 7.074 | 7.074 |
| 141 | 03--24 | 5.847 | 5.91 | 5.91 | 5.92 | 5.934 | 5.951 | 5.951 |
| 142 | 03--26 | 5.809 | 5.873 | 5.873 | 5.883 | 5.897 | 5.915 | 5.915 |
| 143 | 03--28 | 5.887 | 5.951 | 5.951 | 5.961 | 5.975 | 5.993 | 5.993 |
| 144 | 03--30 | 5.911 | 5.975 | 5.975 | 5.986 | 6 | 6.018 | 6.018 |
| 145 | 03--32 | 5.831 | 5.895 | 5.895 | 5.906 | 5.92 | 5.937 | 5.937 |
| 146 | 03--34 | 5.776 | 5.838 | 5.838 | 5.848 | 5.862 | 5.879 | 5.879 |
| 147 | 03--36 | 6.959 | 7.029 | 7.029 | 7.041 | 7.057 | 7.077 | 7.077 |
| 148 | 03--38 | 6.379 | 6.443 | 6.443 | 6.454 | 6.468 | 6.486 | 6.486 |
| 149 | 02--21 | 5.228 | 5.282 | 5.282 | 5.29 | 5.302 | 5.317 | 5.317 |
| 150 | 02--23 | 6.589 | 6.658 | 6.658 | 6.669 | 6.685 | 6.703 | 6.703 |
| 151 | 02--25 | 6.986 | 7.059 | 7.059 | 7.07 | 7.086 | 7.105 | 7.105 |
| 152 | 02--27 | 6.708 | 6.779 | 6.779 | 6.79 | 6.806 | 6.825 | 6.825 |
| 153 | 02--29 | 7.259 | 7.332 | 7.332 | 7.344 | 7.36 | 7.38 | 7.38 |
| 154 | 02--31 | 6.736 | 6.807 | 6.807 | 6.818 | 6.834 | 6.853 | 6.853 |
| 155 | 02--33 | 6.969 | 7.04 | 7.04 | 7.052 | 7.068 | 7.088 | 7.088 |
| 156 | 02--35 | 6.578 | 6.646 | 6.646 | 6.657 | 6.673 | 6.692 | 6.692 |
| 157 | 02--37 | 5.245 | 5.298 | 5.298 | 5.307 | 5.319 | 5.334 | 5.334 |
| 158 | 01--24 | 5.273 | 5.328 | 5.328 | 5.336 | 5.348 | 5.363 | 5.363 |
| 159 | 01--26 | 6.448 | 6.513 | 6.513 | 6.524 | 6.538 | 6.556 | 6.556 |
| 160 | 01--28 | 6.601 | 6.666 | 6.666 | 6.676 | 6.691 | 6.708 | 6.708 |
| 161 | 01--30 | 6.649 | 6.713 | 6.713 | 6.724 | 6.738 | 6.756 | 6.756 |
| 162 | 01--32 | 6.462 | 6.526 | 6.526 | 6.537 | 6.551 | 6.569 | 6.569 |
| 163 | 01--34 | 5.253 | 5.306 | 5.306 | 5.315 | 5.327 | 5.342 | 5.342 |

Note:/ Примечание:

1. Date of the reactor power change is mentioned in tables / В Таблицах указаны даты изменения тепловой мощности РУ.
2. Calculation of Burn-up was not carried out from 01.02.2014 to 05.02.2014 due to fail of DS1 and DS2 / С 01.02.2014 по 05.02.2014 из-за сбоя ВК ВУ 1,2 расчет по выгаранию не выполнялся.