This document contains information affecting the National Defense of the United States within the meaning of the Espionage Act, U.S.C. 50, 31, and 32. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

[redacted]

CHEMICAL CODE

2684

CD-26

UNCLASSIFIED RHTG-11,029 BOX #

700 = Acetic Acid, commercial, assay 99.8% CH_3COOH

701 = Hydrochloric Acid, C. P., assay 37.0 - 38.5% HCl, Sp. Gr. 1.18

702 = Sulfuric Acid, C. P. assay 95 - 98% H_2SO_4, Sp. Gr. 1.84

703 = Nitric Acid, C. P., assay 70% HNO_3, Sp. Gr. 1.42

704 = Ferric Hydroxide

705 = Hydrogen Peroxide, 30% solution, aqueous

706 = Ammonium Carbonate, lumps, U.S.P., assay 30% NH_3

707 = Ammonium Hydroxide, 28% aqueous solution, C. P., assay 28 - 29% NH_3 Sp. Gr. 0.90

708 = Anhydrous Ammonia, NH_3

709 = Sodium Hydroxide, 48 - 50% solution, electrolytic process

709-A = Sodium Hydroxide, 10%

709-B = Spent Hydroxide

710 = Metallic Mercury, redistilled

711 = Sodium Carbonate, anhydrous, reagent grade

712 = Zinc Metal, powder, reagent grade

713 = Zinc Amalgam

714 = Liquid Nitrogen

714-A = Nitrogen Gas

715 = Liquid Oxygen

715-A = Oxygen Gas

716 = Liquid Air

717 = Calgon

718 = Drierite

719 = Calcium Chloride, anhydrous porous, 20-mesh

720 = Tuballoy Metal

721 = Tuballoy Dioxide

721-B = Brown Sublimation Residue

Classification Changed to UNCLASSIFIED
By Authority of Admin
Classification Authority
By R. B. Martin, Analysas Corp. 8-21-90
R. V. Anderson 8-22-90 Date

UNCLASSIFIED

ChemRisk Document No. 2684

[redacted]

UNCLASSIFIED

723 - Tuballoy Trioxide, TO_3

723-BT- Tuballoy Trioxide From Bulk Treatment Department

724 - Tuballoy Peroxide, $TO_4 2H_2O$

724-A - Anhydrous Tuballoy Peroxide, TO_4

725 - Tuballosic Oxide, T_3O_8

726 - Tuballous Hydroxide, $T(OH)_4$

727 - Ammonium Dituballate $(NH_4)_2T_2O_7$

728 - Tuballous Oxychloride, $TOCl_2$

729 - Tubanyl Chloride, TO_2Cl_2

730 - Tuballoy Tetranitrate, $T(NO_3)_4$

731 - Tuballoy Tetrachloride, TCl_4

731-C - Sublimed Tuballoy Tetrachloride, TCl_4

731-G - Green Sublimation Residue

731-H - Tuballoy Tetrachloride received from Harshaw Chemical Company

731-R - Unused Alpha Charge returned from Tracks

732 - Tuballoy Trichloride, TCl_3

733 - Tuballoy Pentachloride, TCl_5

734 - Tuballoy Hexachloride, TCl_6

735 - Tuballoy Hexafluoride, TF_6

736 - Cobaltic Fluoride, CoF_3, Reagent Grade

737 - Gunk Solution

743 - Tubanyl Nitrate, $TO_2(NO_3)_2$

750 - Acetone, technical

UNCLASSIFIED

751 - Carbon Tetrachloride, commercial grade, made by methane process, sulfur-free

752 - Trichlorethylene, technical grade

753 - Solid CO_2

753-A - Gaseous CO_2

754 - Socony Vacuum Pump Oil - Kinney Pumps

755 - Litton Oil - Diffusion Pumps

756 - Octoil - Diffusion Pumps

757 - Phosgene Gas

758 - Shellacol

759 - Amyl Acetate

760 - Castor Oil

761 - Benzene

762 - Xylene

763 - Ether

764 - Freon Compressor Oil

765 - Tuballoy Tetrafluoride, TF_4

766 - Tubanyl Sulfate, $TO_2SO_4.3H_2O$

767 - Chlorine

768 - Alcohol-Free Ethyl Ether

769 - Ammonium Nitrate NH_4NO_3

770 - Aluminum Sulphate, $Al_2(SO_4)_3$

771 - Ammonium Bifluoride NH_4HF_2

772 - Emery Dust

773 - Barium Nitrate

774 - Aerosol OT

775 - Calcium Nitrate

776 - Dibutyl Carbitol

777 - Benzoic Acid

778 - Ammonium Benzoate

779 - Ammonium Sulphate

780 - Copper Nitrate Trihidrate

UNCLASSIFIED

UNCLASSIFIED

The 800 Series applies to all chemicals prepared from tuballoy which are shipped to the Y-12 Plant by the S-50 Plant. The code number will be the same within the 800 Series as the normal chemical now has within the 700 Series.

820 - S-50 Tuballoy Metal

821 - S-50 Tuballoy Dioxide

821-B - S-50 Brown Sublimation Residue

823 - S-50 Tuballoy Trioxide, TO_3

824 - S-50 Tuballoy Peroxide, $TO_4 2H_2O$

824-A - S-50 Anhydrous Tuballoy Peroxide, TO_4

825 - S-50 Tuballosic Oxide, T_3O_8

826 - S-50 Tuballous Hydroxide, $T(OH)_4$

827 - S-50 Ammonium Dituballate $(NH_4)_2T_2O_7$

828 - S-50 Tuballous Oxychloride, $TOCl_2$

829 - S-50 Tubanyl Chloride, TO_2Cl_2

830 - S-50 Tuballoy Tetranitrate, $T(NO_3)_4$

831 - S-50 Tuballoy Tetrachloride, TCl_4

831-C - S-50 Sublimed Tuballoy Tetrachloride

831-G - S-50 Green Sublimation Residue

831-R - S-50 Unused Alpha Charge returned from Tracks

832 - S-50 Tuballoy Trichloride, TCl_3

833 - S-50 Tuballoy Pentachloride, TCl_5

834 - S-50 Tuballoy Hexachloride, TCl_6

835 - S-50 Tuballoy Hexafluoride, TF_6

837 - S-50 Gunk Solution

843 - S-50 Tubanyl Nitrate, $TO_2(NO_3)_2$

865 - S-50 Tuballoy Tetrafluoride, TF_4

866 - S-50 Tubanyl Sulfate, $TO_2SO_4.3H_2O$

UNCLASSIFIED

UNCLASSIFIED

The 900 Series applies to all chemicals prepared from tuballoy which are shipped to the Y-12 Plant by the K-25 Plant. The code number will be the same within the 900 Series as the normal chemical now has within the 700 Series.

920 - K-25 Tuballoy Metal

921 - K-25 Tuballoy Dioxide

921-B - K-25 Brown Sublimation Residue

923 - K-25 Tuballoy Trioxide, TO_3

924 - K-25 Tuballoy Peroxide, $TO_4 2H_2O$

924-A - K-25 Anhydrous Tuballoy Peroxide, TO_4

925 - K-25 Tuballosic Oxide, T_3O_8

926 - K-25 Tuballous Hydroxide, $T(OH)_4$

927 - K-25 Ammonium Dituballate $(NH_4)_2T_2O_7$

928 - K-25 Tuballous Oxychloride, $TOCl_2$

929 - K-25 Tubanyl Chloride, TO_2Cl_2

930 - K-25 Tuballoy Tetranitrate, $T(NO_3)_4$

931 - K-25 Tuballoy Tetrachloride, TCl_4

931-C - K-25 Sublimed Tuballoy Tetrachloride

931-G - K-25 Green Sublimation Residue

931-R - K-25 Unused Alpha Charge returned from Tracks

932 - K-25 Tuballoy Trichloride, TCl_3

933 - K-25 Tuballoy Pentachloride, TCl_5

934 - K-25 Tuballoy Hexachloride, TCl_6

935 - K-25 Tuballoy Hexafluoride, TF_6

937 - K-25 Gunk Solution

943 - K-25 Tubanyl Nitrate, $TO_2(NO_3)_2$

965 - K-25 Tuballoy Tetrafluoride, TF_4

966 - K-25 Tubanyl Sulfate, $TO_2SO_4.3H_2O$

UNCLASSIFIED

UNCLASSIFIED

The 1000 Series applies to tuballoy compounds of Alpha Product X content. This applies to Alpha Product from normal material, K-25 material, and S-50 material. The code number will be the same within the 1000 Series as the normal chemical now has within the 700 Series.

1020 - Alpha Product Tuballoy Metal

1020-A - Beta Product Tuballoy Metal

1021 - Alpha Product Tuballoy Dioxide

1021-B - Alpha Product Brown Sublimation Residue

1023 - Alpha Product Tuballoy Trioxide, TO_3

1024 - Alpha Product Tuballoy Peroxide, $TO_4 2H_2O$

1024-A - Alpha Product Anhydrous Tuballoy Peroxide, TO_4

1025 - Alpha Product Tuballosic Oxide, T_3O_8

1026 - Alpha Product Tuballous Hydroxide, $T(OH)_4$

1027 - Alpha Product Ammonium Dituballate $(NH_4)_2T_2O_7$

1028 - Alpha Product Tuballous Oxychloride, $TOCl_2$

1029 - Alpha Product Tubanyl Chloride, TO_2Cl_2

1030 - Alpha Product Tuballoy Tetranitrate, $T(NO_3)_4$

1031 - Alpha Product Tuballoy Tetrachloride, TCl_4

1031-C - Alpha Product Sublimed Tuballoy Tetrachloride, TCl_4

1031-G - Alpha Product Green Sublimation Residue

1031-R - Alpha Product Unused Charge Returned From Tracks

1032 - Alpha Product Tuballoy Trichloride, TCl_3

1033 - Alpha Product Tuballoy Pentachloride, TCl_5

1034 - Alpha Product Tuballoy Hexachloride, TCl_6

1035 - Alpha Product Tuballoy Hexafluoride, TF_6

1038 - Alpha Product Gunk Solution

1039 - Acid Wash From Alpha R Pockets

1041 - Acid Wash From Beta R Pockets

UNCLASSIFIED

UNCLASSIFIED

1042 - Acid Wash From Beta Q Pockets

1043 - Alpha Product Tubanyl Nitrate, $TO_2(NO_3)_2$

1065 - Alpha Product Tuballoy Tetrafluoride, TF_4

1066 - Alpha Product Tubanyl Sulfate, $TO_2SO_4.3H_2O$

UNCLASSIFIED

DISTRIBUTION:

1. Dr. F. R. Conklin
2. Dr. J. G. McNally
3. Dr. J. C. Hecker
4. Lt. Col. J. R. Ruhoff
5. "
6. "
7. "
8. Mr. A. D. Caley
9. Mr. A. E. Ballard
10. Mr. J. L. Patterson
11. Mr. D. Z. Elliott
12. Dr. Alan Bell
13. Mr. M. F. Quinn
14. Mr. H. R. Brigham
15. Mr. M. L. Piker
16. Dr. H. A. Young
17. Dr. C. E. Larson
18. Mr. C. D. W. Thornton
19. Mr. G. P. Happ
20. Dr. E. F. Orlemann
21. Mr. B. W. Bromley
22. Dr. A. E. Cameron
23. Mr. John Rogers
24. Dr. J. H. Sterner
25. Mr. R. L. Flanary
26. Dr. H. T. Wensel
27. "
28. "
29. "
30. Mr. D. C. Hull
31. "
32. "
33. "
34. "
35. Dr. J. P. Baxter
36. Mr. L. G. Warren
37. Dr. L. E. West
38. Mr. S. A. Wrightman
39. Mr. C. D. Susano
40. Dr. J. R. Clark
41. File
42. "
43. "
44. "
45. "

UNCLASSIFIED