

The Trinity Experiments



Thomas Merlan
Prepared by Human Systems Research, Inc.
Prepared for White Sands Missile Range, New Mexico

1997

The Trinity Experiments

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The Trinity Experiments:

Trinity Los Alamos Scientific Laboratory, U. S. Government, 2017-09-18 The history of the world's first atomic explosion on July 16 1945 at the Trinity test site in southern New Mexico is covered in this unique compilation of reports and publications The report of the Los Alamos Scientific Laboratory provides a comprehensive record of the atom bomb test other publications reveal secrets of the test site The introduction of the report states Preparations for the Trinity test were started in March 1944 and culminated in a 100 ton rehearsal shot on May 7 1945 and the final gadget test shot on July 16 1945 The purposes of this report are To put on record the development scope and type of operations involved in the July 16 1945 atomic bomb test with recommendations for future operating procedure to collect in one place all the reports relating to the apparatus and results planning and administration A test of the atomic bomb was considered essential by the Director and most of the group and division leaders of the Laboratory because of the enormous step from the differential and integral experiments and theory to a practical gadget No one was content that the first trial of a Fat Man F M gadget should be over enemy territory where if the gadget failed the surprise factor would be lost and the enemy might be presented with a large amount of active material in recoverable form The only thing that could finally settle the many questions current before the test was an actual experiment with full instrumentation Plans were made for yields from 100 10000 tons with the most probable value 4000 tons July 10 1945 The safety of personnel and structures was insured for yields as great as 200000 tons The final functioning of the bomb showed that the prior work had been excellent in every respect and no vital factor had been overlooked In the winter and spring of 1944 the possibility that the first test bomb would not work at all was constantly in mind Discussions had been held between S Neddermeyer G B Kistiakowsky J R Oppenheimer and others to consider the construction of a large pressure vessel that would be able to contain the active material and products of the explosion of a high explosive if the operation of the first atomic bomb should be a complete fizzle The need for the containing vessel was based on the uncertainties of the behaviour of the bomb and the desirability of conserving active material Contents include CALIBRATION AND REHEARSAL SHOT Plan and Organization Firing of 100 Ton Shot Results of the 100 Ton Shot Report on First Trinity Test Purpose of Test General Character of the Test Program of Measurement and Observation Organization for Carrying Out the Program Behaviour of the Implosion Nuclear Energy Released Damage Effects Produced Overall Behaviour of the Explosion and Its After Effects Meteorological Observations Health Control Conclusion Post 100 Ton Suggestions For Improved Facilities and Procedure Suggestions for Improvements Conclusions Concerning the 100 Ton Test PREPARATIONS FOR THE JULY 16 TEST Coordination of Preparations Consultants Weekly Meetings Acceptance of New Experiments Prompt Dissemination of General Information Coordination of Construction FINAL PREPARATIONS FOR REHEARSALS AND TEST Schedule Timing and Wiring Layout Electronics Shelter Chiefs Arming Party Location and Time of Shot Protection Against Radiation Base Camp Directions Health and Monitoring Organization and Preparations Introduction Organization of Medical

Group TR 7 Equipment of Medical Group Plans for Monitoring Before Shot Plans for Monitoring Time of Shot Plans for Monitoring After Shot Immediate Hazards Delayed Hazards Meteorology WORK PRECEDING AND INCLUDING ASSEMBLY AT TRINITY Preliminary Tests Preparations at Y Procedure for Final Assembly RADIAL DISTRIBUTION OF NEUTRONS GAMMA RADIATION AND THERMAL RADIATION Neutrons Fast Prompt Neutrons *Los Alamos Science* ,1983 *King's Treatise on the Science and Practice of the Manufacture and Distribution of Coal Gas* Thomas Newbigging,W. T. Fewtrell,1882 *The Compact Compendium of Experimental Philosophy* Alexander Max Bauer,Stephan Kornmesser,2023-11-20 The relatively new movement of Experimental Philosophy applies different systematic experimental methods to further illuminate classical philosophical issues This book brings together experts from the field to give the reader a compact yet extensive overview offering a ready at hand introduction to the state of the art *Report of the Annual Meeting* British Association for the Advancement of Science,1887 **A History of Magic and Experimental Science ...: The first thirteen centuries of our era** Lynn Thorndike,1923 **Report of the ... Meeting of the British Association for the Advancement of Science** ,1887 **Annual Report of the Wisconsin Agricultural Experiment Association** Wisconsin Agricultural Experiment Association,1912 Vols for 14th include the 4th annual report of Alfalfa Order **Bulletin - Texas Agricultural Experiment Station** Texas Agricultural Experiment Station,1922 *Report of the ... Meeting* ,1887 **Encyclopedia Britannica** Hugh Chisholm,1911 **The Encyclopaedia Britannica: Ita to Lor** ,1911 **The Encyclopædia Britannica** ,1911 *The Journal of the Royal Dublin Society* Royal Dublin Society,1878 *The Life-boat, Or, Journal of the National Life-Boat Institution* ,1876 *Official Monthly Bulletin of the Inter-state Cotton Seed Crushers' Association* ,1927 **Parliamentary Papers** Great Britain. Parliament. House of Commons,1894 **Industries** ,1886 **Report of the Work of the Experimental Farm of the South Carolina College for the Years 1883, 1884, 1885, and 1886, in Part** South Carolina College of Agriculture and Mechanic Arts. Experimental Farm,1886

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