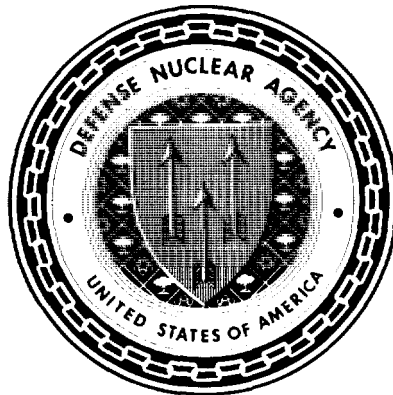


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**SHOTS**  
**SUGAR AND UNCLE**  
**The Final Tests of the**  
**BUSTER-JANGLE Series**  
**19 November-29 November**  
**1951**



United States Atmospheric Nuclear Weapons Tests  
Nuclear Test Personnel Review

Prepared by the Defense Nuclear Agency as Executive Agency  
for the Department of Defense

DARE #  
24299











































































### 2.2.1 Weapons Effects Tests

The Weapons Effects Test Unit conducted a number of projects at Shot SUGAR, as indicated in table 2-2. Project participants spent several weeks before the detonation placing and calibrating various types of instruments and gauges.

Project 1.1, Ground Acceleration Measurement, was conducted by the Naval Ordnance Laboratory. The principal objective was to study the characteristics of ground acceleration resulting from a surface detonation. Project participants placed accelerometers and pressure gauges at an estimated 16 stations located 90 to 930 meters south-southwest of the SUGAR ground zero. Four hours before the detonation, personnel left the shot area after charging batteries in a recording station 2,480 meters south-southwest of ground zero. They recovered records from the station after the detonation (50; 55).

Project 1.2a-1, Peak Air Blast Pressures from Shock Velocity Measurements, was conducted by the Ballistics Research Laboratories. The objective was to study airblast effects in relation to ground shock effects. Four participants and a monitor were to begin recovering gauges from 12 stations 90 to 910 meters south of ground zero at 0730 hours on the day after the detonation (19; 55).

Project 1.2a-2, Transient Ground Mechanical Effects from HE [High Explosives] and Nuclear Explosions, was conducted by the Ballistics Research Laboratories. The objective was to measure ground shock phenomena. The same four participants and monitor who performed Project 1.2a-1 were to begin recovering gauges from 12 stations 90 to 910 meters south of ground zero at 0730 hours on the day after the detonation (3; 55).

Project 1.3a, Free Air Shock Arrival Times, was conducted by Brookhaven National Laboratory. The objective was to measure the

time of arrival of the blast wave in free air resulting from a surface detonation. Project personnel took measurements with pressure gauges suspended from balloons (59).

Sixteen hours before the detonation, participants placed a timing unit, used to start a pressure recording system, near the SUGAR device. Six hours before the detonation, four project participants and seven workers began suspending gauges from balloons at a station 910 meters south of ground zero. One participant arrived an hour later at a telemetry station 13 kilometers south of ground zero. Two hours and 15 minutes before the detonation, the four project participants at the station 910 meters south of ground zero proceeded toward the telemetry station and the seven workers left the shot area. Participants left the telemetry station two hours after the detonation to analyze the data obtained from the stations (55; 59).

Project **1.3b**, Peak Pressure versus Distance in Free Air Using Smoke and Rocket Photography, was conducted by the Naval Ordnance Laboratory. The objective was to determine the peak overpressure along the ground and in the air above a surface detonation. Project personnel used high-speed photographs of smoke rocket trail distortions to measure blast pressures. Fourteen hours before the detonation, participants placed smoke rocket launchers at various locations in the shot area. They positioned the cameras 4,570 meters from ground zero (52; 55).

Project **1.3c**, The Measurement of Free Air Atomic Blast Pressures, was conducted by the Air Force Cambridge Research Center and the 6531st Flight Test Squadron of the Rome Air Development Center. The objective was to measure free-air blast pressures using instrumented canisters deployed from aircraft. Two B-29 aircraft, provided by the 6531st Flight Test Squadron and having a crew of ten each, dropped eight canisters. One B-29 flew at an altitude of 15,800 feet and the other at an altitude

of 35,800 feet. On the ground, radar guided the two B-29s to the proper drop point, a telemetry station received pressure data from the canisters, and a tracking system monitored the location of the canisters (32).

The following activities took place seven hours before the detonation (55):

- Ten project participants arrived at the radar station, about 13 kilometers south of ground zero. They remained there through shot-time.
- Two participants arrived at the Control Point weather office to furnish weather information.
- Eight participants arrived at the Program 1 telemetry station, 13 kilometers south of ground zero.
- Two participants arrived at tracking station 1, eight kilometers southwest of ground zero.
- One participant arrived at tracking station 2, about nine kilometers west of ground zero.
- Four participants arrived at tracking stations 5 and 6, at unspecified distances from ground zero.\*

An hour later, two participants arrived at tracking station 3, about eight kilometers southeast of ground zero. Four hours before the detonation, some of the participants arrived at the radar station. An hour later, another participant arrived at tracking station 2, and two additional persons arrived at station 1 after having started the equipment at station 4, about three kilometers south of ground zero. Thirty minutes after the shot, personnel left tracking station 3 and the radar station. Forty-five minutes after the detonation, personnel left the other stations (32; 55).

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\*Stations 5 and 6 are mentioned in the AEC operation order (55) but not in the Project 1.3c weapons test report (32). These stations may not have been functioning during the actual test.

Project 1.4, Free Air Pressure Measurements, was conducted by Sandia Corporation. The objective was to record blast pressures at ground-level stations for a surface detonation. Project participants placed gauges around ground zero before the detonation. Two hours before the shot, two participants arrived at the Program 1 station 13 kilometers south of ground zero. After the declaration of recovery hour, four participants and a monitor retrieved blast records 520 to 1,280 meters from ground zero (39; 55).

Project 1.5a, Transient Ground Displacement Measurement, was conducted by the Naval Ordnance Laboratory. The objective was to measure the transient ground displacement caused by a surface detonation and to correlate this displacement with ground acceleration and damage to structures. Before the shot, project personnel placed markers in the ground at ten stations 90 to 580 meters south of ground zero. In addition, they oriented a camera station, located 1,530 meters east of ground zero, toward the markers. During the detonation, the camera filmed the markers' movement resulting from the shot. Participants retrieved the film and measured marker displacement after the area was opened for recovery operations (51; 55).

Project 1.6, Earth Displacement (Shear Shafts), was conducted by the Ohio River Division Laboratories and the Office, Chief of Engineers. The objective was to determine the limits and amounts of permanent displacement in areas surrounding craters caused by a surface detonation. Project participants installed instruments in a series of deep shafts 230 meters east and west and 300 meters south of ground zero. Several weeks later, they retrieved the data to determine permanent earth displacement (56).

Project 1.7, Ground Acceleration (Shock Pins), was conducted by the Massachusetts Institute of Technology for the Office,

Chief of Engineers. The objective was to determine if shock pins would furnish reliable data regarding magnitude of ground shock associated with a nuclear detonation. Before the detonation, project personnel installed metal shock pins two feet into the ground at stations about 190 to 380 meters east and west of ground zero and 170 to 560 meters south of ground zero. Participants reentered the shot area after the declaration of recovery hour to examine the exterior of each shock pin station. Excavating crews later uncovered the shelters, enabling project personnel to photograph the positions of the shock pins (30; 55).

Project 1(8)b, Air Weather Service Participation in Operation JANGLE, was conducted by the 2060th Mobile Weather Squadron of the Air Weather Service. The activity was a continuation of Project 8.2, Air Weather Service Participation in Operation BUSTER. The objective, like that of Project 8.2, was to gather and report weather information before the detonation, including data on wind conditions, temperature, and humidity. Project personnel worked from a weather station at the Control Point and from outlying stations at Tonopah, Warm Springs, Carrant, Pioche, and Alamo, Nevada, and at St. George, Utah (43).

Project 2.1a, Gamma Radiation as a Function of Time and Distance, was conducted by the Evans Signal Laboratory and the National Bureau of Standards. The objective was to measure gamma intensity in order to assess the radiation effects of a surface burst. Nine hours before the detonation, five project personnel finished checking radiation detectors at stations 610 to 4,650 meters from ground zero. The stations were primarily north-northwest to north-northeast of ground zero. Three hours before the detonation, nine participants in two vehicles traveled from the Control Point to a recorder station five kilometers west of ground zero. The trip took 45 minutes. Four hours after the detonation, three participants relieved personnel who 'had gone to the recorder station shortly after the detonation. Four

personnel relieved the second group of participants at the recorder station at 0730 hours on the day following the detonation (14; 55).

Project 2.1b, Gamma Radiation as a Function of Time with Droppable Telemeters, was conducted by the Naval Air Development Center. The objective was to measure gamma intensity in and around the crater following the burst (11).

Fourteen hours before the detonation, two project participants installed telemetering instruments at eight-meter intervals 310 to 920 meters northeast of ground zero. The instruments transmitted data on shot-day to the Program 1 station 13 kilometers south of ground zero. Project personnel entered the station several hours before the shot and operated equipment during the detonation and for 15 to 25 minutes thereafter.

The measurement of residual radiation involved a Navy P2V-2 aircraft, which left Kirtland AFB for the Nevada Proving Ground one hour before the detonation. The aircraft had flown half the distance to the NPG by the time the nuclear device was detonated. Two hours after the detonation, the aircraft dropped radiac telemetry units into the crater area (11; 55).

Project 2.1c-1, Aerial Survey of Distant Contaminated Terrain, was conducted by Headquarters, Air Force. The objectives were to determine by use of instrumented aircraft the radiation levels of fallout from the Shot SUGAR cloud and to test the efficiency of various airborne instruments in detecting radioactivity (31). The aircraft from this project were under the operational control of SWC and are discussed in section 2.2.3.

Project 2.1c-2, Aerial Survey of Local Contaminated Terrain, was conducted by the Navy Bureau of Aeronautics, Air Force Air



Research and Development Command, and Wright Air Development Center. The objective was to test the ability of airborne radiac equipment to detect gamma emitters on the ground. After the detonation, two instrumented aircraft, a Navy P2V-2 and an Air Force B-17, orbited over ground zero at altitudes of 8,000 feet and 10,000 feet, respectively. Participants aboard the aircraft monitored and recorded radiation levels for an hour after the detonation. The aircraft then surveyed the shot area at heights of 500 to 2,000 feet above the crater and its vicinity. Upon completing their mission, the aircraft returned to Kirtland AFB (55; 67).

Project 2.1d, Monitor Survey of Ground Contamination, was conducted by the Naval Radiological Defense Laboratory, the Radiological Health and Safety Group of LASL, and AFSWP. The objective was to determine the extent and magnitude of the radiation field in the shot area, as measured by survey teams. At various times up to one month after the detonation, the teams monitored radiation intensities in the area. Radiological safety monitors accompanied the project monitors in their activities (42).

Project 2.3-1, Total Gamma Radiation Dosage, was conducted by the Evans Signal Laboratory. The objective was to use various types of dosimeters and film badges to determine gamma radiation exposure. Sixteen hours before the detonation, three teams, each consisting of two persons, placed dosimeters at 108 stations 300 meters to 15 kilometers in various directions from ground zero. They recovered the dosimeters two days after the shot (24; 55).

Project 2.3-2, Foxhole Shielding of Gamma Radiation, was conducted by the Engineer Research and Development Laboratories. The objective was to evaluate the protection afforded by foxholes against gamma radiation emitted from a surface nuclear detonation. Sixteen hours before the detonation, three teams, each

consisting of two personnel, placed dosimeters in foxholes 610 to 1,530 meters northeast of ground zero. They recovered the dosimeters two days later (55; 70).

Project 2.4a, Beta-ray and Gamma-ray Energy of Residual Contamination, was conducted by the Naval Radiological Defense Laboratory. The objective was to determine the energy spectra of residual beta and gamma radiation. Before the shot, project personnel placed dosimeters at 13 stations 300 to 1,830 meters northwest of ground zero, 20 stations 430 to 3,660 meters north of ground zero, 13 stations 300 to 1,830 meters northeast of ground zero, and seven stations 730 to 2,000 meters south of ground zero.

Within five hours after the detonation, project personnel retrieved dosimeters from six stations 1,060 to 1,530 meters northwest of ground zero. By six hours after the shot, project personnel had retrieved dosimeters from 12 stations located 610 to 1,830 meters northeast of ground zero and from the seven stations south of ground zero. Within 27 hours after the shot, project personnel had retrieved all dosimeters located north of ground zero, one located 300 meters northeast of ground zero, and one located 1,830 meters northwest of ground zero. By 28 hours after the detonation, project personnel had recovered the last dosimeters, located at six stations 300 to 980 meters northwest of ground zero (68; 74).

Project 2.4b, Gamma Depth Dose Measurement in Unit-density Material, was conducted by the Naval Medical Research Institute. The objective was to determine dose caused by initial and residual gamma radiation. Twelve hours before the detonation, four project personnel placed instrumented phantoms (mannequins made of masonite approximating the density of human tissue) 690 to 1,070 meters west and slightly south of ground zero. Four

participants recovered the phantoms from these stations one hour after the announcement of recovery hour (12; 55).

Project 2.4c, Gamma Ray Spectrum Measurements of Residual Radiation, was conducted by Brookhaven National Laboratory. The objective was to determine the energy spectrum of residual gamma radiation resulting from a surface nuclear detonation. Two hours after the detonation, five project personnel and a monitor proceeded by truck to an area south of ground zero, where they took spectral measurements. Four hours after the detonation, they made their closest approach to ground zero (460 meters), where the radiation intensity was 0.04 R/h. Participants also took measurements 29, 52, 53, and 55 hours after the detonation. The highest intensity encountered was 0.1 R/h, 53 hours after the detonation and 365 meters from ground zero (4; 55).

Project 2.5a-1, Airborne Particle Studies, was conducted by the Army Chemical Center. The objective was to determine characteristics of airborne particles associated with a surface detonation. Nine hours before the detonation, eight teams, each consisting of two personnel, finished checking air samplers in the shot area. Four hours after the area was opened for recovery operations, four teams, each having five project personnel and a monitor, retrieved samples from stations more than 4,270 meters northeast of ground zero. At 0730 on the next day, five parties, each of five personnel, recovered samples from stations 610 to 4,270 meters northeast of ground zero. Project 2.5a-3 personnel analyzed these samples (55; 60).

Project 2.5a-2, Fallout Particle Studies, was conducted by the Naval Radiological Defense Laboratory. The objective was to determine the chemical and physical properties and the distribution of fallout associated with a surface detonation (58).

Nine hours before the detonation, four two-man parties finished placing aerosol and fallout collectors in a sector northwest to northeast of ground zero at distances of 610 to 6,100 meters from ground zero. Three hours before the shot, four teams, each of two participants, and one group of nine participants began setting timers to activate the fallout trays five minutes before the shot. They spent about 45 minutes in this activity.

Thirty minutes after the detonation, a helicopter flew to the instrument area to pick up fallout trays with grappling hooks. The helicopter returned to a transfer station at an unspecified location. Project personnel then transported the trays by vehicle from the station to the Control Point. This operation continued until all samples had been retrieved. Two hours after the detonation, one participant transported the trays from the Control Point to the project center, probably at Camp Mercury. Four parties, each consisting of two participants and a monitor, retrieved earth samples two hours after the declaration of recovery hour. At 0730 hours on the day after the detonation, four two-man parties retrieved the remaining fallout trays (55; 58).

Project 2.5a-3, Radiochemical Studies of Large Particles, was conducted by the Army Medical Service Graduate School. The objective was to study the size, radioactivity, and chemical composition of fallout particles resulting from the detonation. Project personnel used samples from fallout trays located out to 23 kilometers northeast of ground zero. Project 2.5a-1 personnel collected these trays from the shot area, while Project 2.5a-3 personnel performed the analysis (48).

Project 2.6a, Remotely Controlled Sampling Techniques, was conducted by Evans Signal Laboratory and Coles Signal Laboratory. The objective was to obtain samples from the crater lip soon

after the detonation for radiochemical studies and spectrometer measurements. Samples were taken from areas around the crater and from about five meters within the crater using remotely controlled vehicles called weasels (25).

Nine hours before the detonation, six project personnel traveled to the shot area to set up two weasels. Sixteen participants left the Control Point three hours before the detonation to be eight kilometers from ground zero within an hour. An hour before the detonation, participants completed work on the sampling equipment.

Shortly after the detonation, project personnel, accompanied by a monitor, proceeded to a control tower, about 1,830 meters from ground zero, to conduct remotely controlled sampling for four and one-half hours. They then left for the Control Point. Thirty minutes later, they arrived at a checkpoint eight kilometers from ground zero. Participants left the weasels there and went to the Control Point for decontamination (25; 55).

Project 2.6c-1, Nature and Distribution of Residual Contamination I, was conducted by the National Institutes of Health and the Public Health Service. The objective was to determine the characteristics of radioactivity in the soil following the nuclear detonation, as a function of soil depth and distance. From one hour to 20 hours after the detonation, project participants took soil samples from the lip of the crater using remotely controlled weasels. In addition, personnel used retrievable rockets to collect one sample from the crater three days following the detonation after a period of considerable rain (46; 55).

Project 2.6c-2, Nature and Distribution of Residual Contamination II, was conducted by the Naval Radiological Defense Laboratory and the Evans Signal Laboratory. The experiment was





























































































































monitor remained at each display area to assist the damage effects teams, and at least one monitor accompanied each evaluation team (37).

### Decontamination

Control stations were located on each road leading out of the shot area. Personnel and vehicles leaving the area were monitored at these stations. If gamma intensities exceeded 0.02 R/h, the personnel and vehicles were directed to the decontamination facility near the exercise area. Personnel were decontaminated mainly by dry brushing, showering, and laundering of clothes. Vehicle decontamination involved repeated washings with detergent and water (37).

#### 3.3.2 Test Organization Radiological Protection Activities

The Radiological Health and Safety Group, consisting of personnel from LASL, from the armed services, and from various other civilian groups, planned and conducted radiation protection activities at Shot UNCLE.

### Dosimetry

Film badge records indicate that seven personnel from the Radiological Health and Safety Group who participated in Shot UNCLE had total gamma exposures over 3 roentgens. Their exposures ranged from 3 to 3.5 roentgens. One participant from Evans Signal Laboratory received a total exposure of 5.7 roentgens. Three Navy personnel received total exposures of 3.1, 3.2, and 3.5 roentgens (23; 25; 73).

Several Air Force personnel received gamma exposures that put them over the 3 roentgen limit: one participant from the 97th Bombardment Squadron received 3.1 roentgens; one participant from Lackland AFB, Texas, received 3.6 roentgens; one AFSWP

participant received 3.8 roentgens; and one Technical Operations Squadron participant received 5 roentgens. In addition, one participant whose unit is identified as BUSTER-JANGLE in the film badge records had an exposure of 4.7 roentgens (73).

### Monitoring

The initial monitoring teams began their survey soon after the detonation. They resurveyed the shot area during the next several days. In addition to the ground survey teams, a team in a helicopter conducted an aerial survey of Area 10, including all roads leading into the shot area (62).

After the teams completed the initial ground and aerial surveys, the Test Manager opened the shot area for limited recovery operations. Recovery parties, each accompanied by a radiological safety monitor, worked in the shot area from about 1330 to 1800 hours. They continued operations on subsequent days.

The Fallout Study of the Radiological Health and Safety Group provided monitoring 16 to 320 kilometers from ground zero. The study involved 32 personnel, one of whom was a DOD participant. As the study team noted, the Shot UNCLE cloud moved to the northeast and "seemed to hang in the valleys." Study personnel also observed that the wind reversed direction late in the afternoon of shot-day, and fallout "returned and passed directly over the CP" [Control Point]. The filter papers that collected some of the fallout became "too hot to count even on the following day" (102).

The three C-47 terrain survey aircraft provided offsite monitoring. The aerial survey teams found maximum surface gamma intensities lower than 0.02 R/h in all offsite areas surveyed (55; 62).

### Plotting

Ground monitoring teams provided survey data used in plotting isointensity contours. Figure 3-5 presents an isointensity plot showing the results of a resurvey conducted 19 hours after the detonation (62).

### Decontamination

Records indicate that 275 ground vehicles were decontaminated during UNCLE (62). As at the BUSTER shots, radiation levels were probably reduced to less than 0.002 R/h by repeated washings of the vehicles with detergent and water.

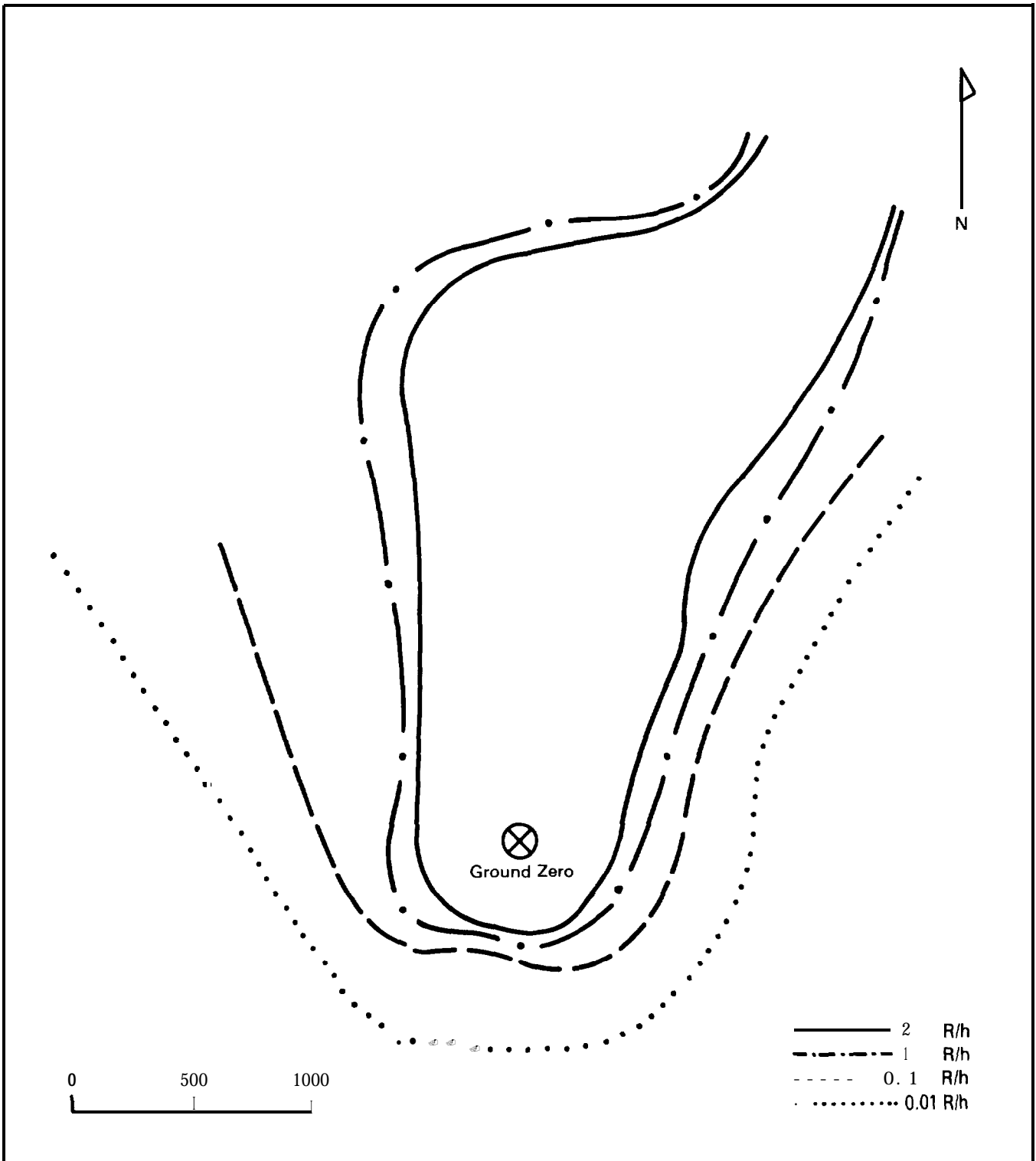


Figure 3-5: RESURVEY FOR SHOT UNCLE, 30 NOVEMBER 1951, 0700 HOURS



#### REFERENCE LIST

The following list of references represents only those documents consulted in the Shots SUGAR and UNCLE volume. When a DASA-WT or DNA-WT document is followed by an EX, the latest version has been cited. The bibliography of documents consulted during the preparation of all three Operation BUSTER-JANGLE reports is contained in the Operation BUSTER-JANGLE volume.

## AVAILABILITY INFORMATION

An availability statement has been included at the end of the reference citation for those readers who wish to read or obtain copies of source documents. Availability statements were correct at the time the bibliography was prepared. It is anticipated that many of the documents marked unavailable may become available during the declassification review process. The Coordination and Information Center (CIC) and the National Technical Information Service (NTIS) will be provided future DNA-WT documents bearing an EX after the report number.

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Colgate University Library  
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Colorado State University Libraries  
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University of Colorado Libraries  
ATTN: Dir of Libraries

Columbia University Library  
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Columbus & Franklin Cty Public Library  
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Compton Library  
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Connecticut State Library (Reg)  
ATTN: Librn

University of Connecticut  
ATTN: Gov't of Connecticut

University of Connecticut  
ATTN: Dir of Libraries

Cornell University Library  
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Corpus Christi State University Library  
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Culver City Library  
ATTN: Librn

Curry College Library  
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Dallas County Public Library  
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Dallas Public Library  
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Dalton Junior College Library  
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Dartmouth College  
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Davenport Public Library  
ATTN: Librn

Davidson College  
ATTN: Librn

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Dayton & Montgomery City Public Library  
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University of Dayton  
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Decatur Public Library  
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Dekalb Community College So Cpus  
ATTN: Librn

Delaware Pauw University  
ATTN: Librn

University of Delaware  
ATTN: Librn

Delta College Library  
ATTN: Librn

Delta State University  
ATTN: Librn

Denison University Library  
ATTN: Librn

Denver Public Library (Reg)  
ATTN: Docs Div

Dept of Library & Archives (Reg)  
ATTN: Librn

Detroit Public Library  
ATTN: Librn

Burlington Library  
ATTN: Librn

Dickinson State College  
ATTN: Librn

Alabama Agricultural Mechanical University & Coll  
ATTN: Librn

Drake University  
ATTN: Cowles Library

Drew University  
ATTN: Librn

Duke University  
ATTN: Pub Docs Dept

Duluth Public Library  
ATTN: Docs Sec

East Carolina University  
ATTN: Lib Docs Dept

East Central University  
ATTN: Librn

East Islip Public Library  
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OTHER (Continued)

East Orange Public Library  
ATTN: U.S. Gov't Depository

East Tennessee State University Sherrod Library  
ATTN: Docs Dept

East Texas State University  
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Monmouth County Library Eastern Branch  
ATTN: Librn

Eastern Illinois University  
ATTN: Librn

Eastern Kentucky University  
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Eastern Michigan University Library  
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Eastern Montana College Library  
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Eastern New Mexico University  
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Eastern Oregon College Library  
ATTN: Librn

Eastern Washington University  
ATTN: Librn

El Paso Public Library  
ATTN: Docs & Geneology Dept

Elko County Library  
ATTN: Librn

Elmira College  
ATTN: Librn

Elon College Library  
ATTN: Librn

Enoch Pratt Free Library  
ATTN: Docs Ofc

Emory University  
ATTN: Librn

Evansville & Vanderburgh Cty Public Library  
ATTN: Librn

Everett Public Library  
ATTN: Librn

Fairleigh Dickinson University  
ATTN: Depository Dept

Florida A & M University  
ATTN: Librn

Florida Atlantic University Library  
ATTN: Div of Pub Docs

OTHER (Continued)

Florida Institute of Technology  
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Florida International University Library  
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Florida State Library  
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Florida State University  
ATTN: Librn

University of Florida  
ATTN: Docs Dept

Fond Du Lac Public Library  
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Ft Hays State University  
Ft Hays Kansas State College  
ATTN: Librn

Ft Worth Public Library  
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Free Public Library of Elizabeth  
ATTN: Librn

Free Public Library  
ATTN: Librn

Freeport Public Library  
ATTN: Librn

Fresno Cty Free Library  
ATTN: Librn

Gadsden Public Library  
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Garden Public Library  
ATTN: Librn

Gardner Webb College  
ATTN: Docs Library

Gary Public Library  
ATTN: Librn

Georgetown University Library  
ATTN: Gov Docs Room

Georgia Institute of Technology  
ATTN: Librn

Georgia Southern College  
ATTN: Librn

Georgia Southwestern College  
ATTN: Dir of Libraries

Georgia State University Library  
ATTN: Librn

OTHER (Continued)

University of Georgia  
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Glassboro State College  
ATTN: Librn

Gleeson Library  
ATTN: Librn

Graceland College  
ATTN: Librn

Grand Forks Public City-County Library  
ATTN: Librn

Grand Rapids Public Library  
ATTN: Dir of Lib

Greenville County Library  
ATTN: Librn

Guam RFK Memorial University Library  
ATTN: Fed Depository Coll

University of Guam  
ATTN: Librn

Gustavus Adolphus College  
ATTN: Librn

South Dakota University  
ATTN: Librn

Hardin-Simmons University Library  
ATTN: Librn

Hartford Public Library  
ATTN: Librn

Harvard College Library  
ATTN: Dir of Lib

Harvard College Library  
ATTN: Serials Rec Div

University of Hawaii Library  
ATTN: Gov Docs Coll

Hawaii State Library  
ATTN: Fed Docs Unit

University of Hawaii at Monoa  
ATTN: Dir of Libraries (Reg)

University of Hawaii  
Hilo Campus Library  
ATTN: Librn

Haydon Burns Library  
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Hennepin County Library  
ATTN: Gov Docs

Henry Ford Community College Library  
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OTHER (Continued)

Herbert H. Lehman College  
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Hofstra University Library  
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Hollins College  
ATTN: Librn

Hopkinsville Community College  
ATTN: Librn

Wagner College  
ATTN: Librn

University of Houston Library  
ATTN: Docs Div

Houston Public Library  
ATTN: Librn

Tulane University  
ATTN: Docs Dept

Hoyt Public Library  
ATTN: Librn

Humboldt State College Library  
ATTN: Docs Dept

Huntington Park Library  
ATTN: Librn

Hutchinson Public Library  
ATTN: Librn

Idaho Public Library & Information Center  
ATTN: Librn

Idaho State Library  
ATTN: Librn

Idaho State University Library  
ATTN: Docs Dept

University of Idaho  
ATTN: Dir of Libraries (Reg)  
ATTN: Docs Sec

University of Illinois Library  
ATTN: Docs Sec

Illinois State Library (Reg)  
ATTN: Gov Oocs Br

Illinois University at Urbana-Champaign  
ATTN: P. Watson Docs Lib

Illinois Valley Community College  
ATTN: Library

Illinois State University  
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Indiana State Library (Reg)  
ATTN: Serial Sec

Indiana State University  
ATTN: Docs Library

OTHER (Continued)

Indiana University Library  
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Indianapolis Marion County Public Library  
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Iowa State University Library  
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Iowa University Library  
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Butler University  
ATTN: Librn

Isaac Delchdo College  
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James Madison University  
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Jefferson County Public Library  
Lakewood Regional Library  
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Jersey City State College  
ATTN: F. A. Irwin Library Periodicals  
Doc Sec

Johns Hopkins University  
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La Roche College  
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Johnson Free Public Library  
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Kalamazoo Public Library  
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Kansas City Public Library  
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Kansas State Library  
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Kansas State University Library  
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University of Kansas  
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University of Texas  
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Affairs Library

Maine Maritime Academy  
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University of Maine  
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Kentucky Dept of Library & Archives  
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University of Kentucky  
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Lake Sumter Community College Library  
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Lancaster Regional Library  
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Lawrence University  
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Brigham Young University  
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Earlham College  
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Long Beach Public Library  
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Los Angeles Public Library  
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Hoover Institution  
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University of Maryland  
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University of Maryland  
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University of Massachusetts  
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Kahului Branch  
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McNeese State University  
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Memphis & Shelby County Public Library &  
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Memphis State University  
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Mercer University  
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University of Miami Library  
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Miami Public Library  
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Nebraska Public Clearinghouse  
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Nebraska Western College Library  
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University of New Mexico  
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New Orleans Public Library  
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New York Public Library  
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New York State Library  
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State University of New York at Stony Brook  
ATTN: Main Lib Docs Sec

State University of New York Col Memorial Lib  
at Cortland  
ATTN: Librn

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North Texas State University Library  
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New York State University  
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State University of New York  
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New York University Library  
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Newark Free Library  
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Newark Public Library  
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Niagara Falls Public Library  
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Nicholls State University Library  
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University  
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University of North Carolina at Charlotte  
ATTN: Atkins Lib Doc Dept

University Library of North Carolina at Greensboro  
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University of North Carolina at Wilmington  
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North Carolina Central University  
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North Carolina State University  
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University of North Carolina  
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North Dakota State University Library  
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University of North Dakota  
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Minnesota Div of Emergency Svcs  
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Northern Illinois University  
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Northern Michigan University  
ATTN: Docs

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Northwestern Michigan College  
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Northwestern State University  
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Northwestern State University Library  
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Northwestern University Library  
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Norwalk Public Library  
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Northeastern Illinois University  
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University of Notre Dame  
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Oberlin College Library  
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Ocean County College  
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Plainfield Public Library  
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Pratt Institute Library  
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Louisiana Tech University  
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Princeton University Library  
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Providence College  
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Providence Public Library  
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Public Library Cincinnati & Hamilton County  
ATTN: Librn

Public Library of Nashville and Davidson County  
ATTN: Librn

University of Puerto Rico  
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Quinebaug Valley Community College  
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Auburn University  
ATTN: Microforms & Docs Dept

Rapid City Public Library  
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Reading Public Library  
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Reed College Library  
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Augusta College  
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University of Rhode Island Library  
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University of Rhode Island  
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State University of Rutgers  
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Rutgers University  
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Rutgers University Law Library  
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University of South Carolina  
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Southeastern Massachusetts University Library  
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Southern Connecticut State College  
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Southern Illinois University  
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Southern Methodist University  
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Southwest Missouri State College  
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University of Southwestern Louisiana Libraries  
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Southwestern University  
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Spokane Public Library  
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Springfield City Library  
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St Bonaventure University  
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St Joseph Public Library  
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St Lawrence University  
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St Louis Public Library  
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St Paul Public Library  
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Stanford University Library  
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State Historical Soc Library  
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State Library of Massachusetts  
ATTN: Librn

State University of New York  
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Stetson University  
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University of Steubenville  
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Stockton & San Joaquin Public Library  
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Stockton State College Library  
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Tennessee Technological University  
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College of Idaho  
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University of Texas at San Antonio  
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Texas Christian University  
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Texas Tech University Library  
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Texas University at Austin  
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Toledo Public Library  
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Torrance Civic Center Library  
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Traverse City Public Library  
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Trenton Free Public Library  
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Uniformed Services University of the Health Sciences  
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University Libraries  
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Upper Iowa College  
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University of Utah  
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University of Utah  
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Valencia Library  
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Vanderbilt University Library  
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University of Vermont  
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Virginia Commonwealth University  
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Virginia Military Institute  
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Virginia Polytechnic Institute Library  
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Virginia State Library  
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University of Virginia  
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Volusia County Public Library  
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Washington University Libraries  
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University of Washington  
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Wayne State University Library  
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Wayne State University Law Library  
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Weber State College Library  
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Wesleyan University  
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West Chester State College  
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West Covina Library  
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University of West Florida  
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West Hills Community College  
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West Texas State University  
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West Virginia College of Grad Studies Library  
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University of West Virginia  
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Westerly Public Library  
ATTN: Librn

Western Carolina University  
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Western Illinois University Library  
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Western Washington University  
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Western Wyoming Community College Library  
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Westmoreland City Community College  
ATTN: Learning Resource Ctr

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Whitman College  
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Wichita State University Library  
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Emporia Kansas State College  
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University of Wisconsin at Whitewater  
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University of Wisconsin at Milwaukee  
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University of Wisconsin at Oshkosh  
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University of Wisconsin at Platteville  
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University of Wisconsin at Stevens Point  
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Simon Schwob Mem Lib, Columbus Co1  
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