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facilities for the electromagnetic frequency measurements that were to be provided by the Signal Corps Engineering Laboratories were not utilized due to the fact that the frequency of occurrence of these phenomena did not justify the \$50,000 a year transfer of funds to the Signal Corps which would be required to carry out such a monitoring facility. However, the phenomena activity over Holloman AFB 150 miles south of Vaughn, N. Mexico during the latter part of August 1950 was considered sufficiently significant so that the contract with Land-Air (Askania cameras only) was extended for six months ending 31 March 1951.

3. Contractual Period - 1 October 1950 to 31 March 1951

Because of the diminution of phenomena activity in the vicinity of Vaughn and the resumption of activity near HAFB, the Askania cameras again were overhauled and installed at HAFB. This installation was completed about 5 November 1950. On 16 October 1950, arrangements were made by Lt. Albert of HAFB that Northrup Aircraft pilots engaged in frequent flying of B-45 and QF-80 aircraft in the Holloman vicinity would report all observations of aerial phenomena.

During this period, occasional reports were received of individuals seeing strange aerial phenomena, but these reports were sketchy, inconclusive, and were considered to be of no scientific value. No sightings were made by the Askania cameras. Nothing whatsoever was reported by the Northrup pilots. Popular interest seemed abated, at least in the southwest. On 31 March 1951, due to the expiration of the contract, Land-Air ceased constant vigilance at the two Askania stations. In summary, the results during this period were negative.

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4. Post Contractual Inquiry

In view of the unproductive nature of the contract with Land-Air, it was decided to make further inquiry concerning recent aerial object developments in New Mexico. On 9 August 1951, the situation was discussed with Lt. Col. Cox of the 17th OSI District (Kirtland AFB). Until 15 March 1950 the District had been diligent in forwarding copies of their reports on aerial object phenomena. Since then, no reports have been received by the Geophysics Research Division. Colonel Cox advised that reports of strange aerial phenomena were still received by the 17th OSI office, at the rate of once or twice a month but little attention was being given to this matter. Most of the reports originated from personnel at Los Alamos. The OSI files were reviewed. (A summary covering recent reports is attached.) It was learned that representatives from LIFE and also from ARGOSY were interested in publishing articles on aerial object phenomena.

On 27 August 1951, developments concerning aerial phenomena were discussed at Holloman AFB. Lt. John Albert previously associated with the project had now been transferred from Holloman. Therefore, the project was discussed with Major Edward A. Doty who had assumed responsibility. Major Doty, who seemed to be thoroughly acquainted with the situation, advised that there have been very few reports of

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aerial phenomena in the vicinity of Holloman since September 1950. The populace around HAFB seem to have lost their sensitivity as observers. Even during the meteor shower of 11-12 August 1951, no alarming reports were received. However, on 14 March 1951, nine Bell personnel reported sighting between fourteen and twenty bodies "not unlike a flock of geese". On 9 July a "red glowing ball" was sighted by a sergeant stationed at the Corona Experimental Radar Site at Corona, New Mexico. (Copies of both reports are attached). More recently, a pilot reported some aerial objects which, after investigation, were identified as planets.

Mr. B. Guildenberg, who is an assistant to Major Doty and an active amateur astronomer, commented that he has been spending several hours at his telescope almost every night for the past few years and never once observed an unexplainable object; that on one occasion, an excited acquaintance was pacified when a "strange object" showed up as an eagle in the telescope; that Clyde Tombaugh, discoverer of the planet Pluto and now engaged in activities at White Sands, never observed an unexplainable aerial object despite his continuous and extensive observations of the sky; that Fred Whipple in his work photographing meteors at Las Cruces, never detected a strange aerial object with his Schmidt cameras; and that the A and M College at Las Cruces engages in astronomical observations but had never observed strange aerial phenomena.

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It was learned from Major Doty, that Col. Baynes, C. O. at HAFB, no longer felt there was any justification for the allocation of funds for maintaining systematic investigation. Rather, he provided that the project be maintained on a standby basis and without official Air Force status. This entails assignment of an officer (Major Doty) to collect incoming reports, make periodic review of the files "for patterns or persistent characteristics in the reports", maintain liaison with OSI, Provost Marshall's Office and any other agencies whose activities may serve to provide information concerning future aerial phenomena developments. Land-Air has agreed to report and if possible photograph any abnormal sightings made during their scheduled periods of operation (about eight hours each day). The weather station will function similarly. Also, all pilots have been briefed to report any unusual observations. If necessary, the project can be activated very quickly, even to the extent where funds will be made available, for the purchase of equipment.

Major Doty also arranged a conference with Mr. Warren Kott, who is in charge of Land-Air operations. Mr. Kott pointed out that a formal report covering the year's vigilance period had not been issued since the contract contained no such provision. Actually, a time correlation study should be made covering the film and verbal recordings at both Askania stations. This would assure that these records did not contain significant material. However, such a study is quite laborious, and would require about thirty man days to complete. Again, no provisions are contained in the contract for this study, but Mr. Kott felt that

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this could be done by Land-Air at the additional expense in the near future when the work load diminished. Mr. Kott requested formal authorization to do this and Major Doty agreed to issue this letter of authorization. It was arranged further that at such time when the study is completed all photographic and tape recordings would be sent to the Geophysics Research Division. Prior to departing HAFB, the project files were reviewed. Major Doty advised that access to the files had not been requested by any periodicals.

On 28 August 1951, the subject was discussed informally with Dr. Lincoln La Paz, who expressed disbelief in all aerial phenomena except for the green fire-balls. The red fire-ball occasionally reported he believed was the visual after-effect of the green. Their recent origin (1947) and peculiar trajectories did not permit, according to Dr. La Paz, them to be classed as natural phenomena. The most recent that has come to his attention occurred over Detroit on 7 July 1951. It crossed the city from Northwest to Southeast with a sharply descending trajectory which leveled out and was observed by many residents of the city. Dr. La Paz expressed the opinion that the fireballs may be of our own military origin, but if not, they are a matter of serious concern.

5. Conclusions

Undoubtedly, a good many of the observations reported are attributable to ordinary man-made objects such as airplanes, balloons, smoke rockets, etc. It appears that balloon observations especially are responsible for a large number of the reports. The possibility of small

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emissive clouds issuing from atomic installations also has been proposed.

Many of the sightings are attributable to natural phenomena such as flight of birds, planets, meteors, and possibly cloudiness. Dr. Fred L. Whipple of Harvard, in a memorandum to this laboratory dated 9 August 1950 relative to this problem, indicated that he had observed a tendency for the occurrence of small detached clouds in New Mexico which might have been mistaken for an aerial object when illuminated by the reflected light of the moon. Dr. Whipple investigated the possibility of a correlation between the frequency of aerial phenomena observations and weather conditions -- specifically cloudiness. A rough analysis of available weather data, indicated that on the 53 nights (between 5 December 1948 and 5 March 1951) when observations were reported, 10 were clear, 24 partially cloudy, 5 completely overcast and 14 had no record. The number of cloudy nights involved seems unusually high for New Mexico. The weather reports were for the Las Cruces Area only whereas many of the observations were a considerable distance from Las Cruces. Further investigation is therefore necessary to determine correlations with cloudiness.

Dr. Whipple also conducted a study as to whether the age of the moon was related to the frequency of aerial phenomena observations. The results did not indicate that the phenomena were observed largely at full moon. The statistics show that of the 72 observations reported, 45 occurred when the moon was up and 27 when it was down with many of the observations occurring at the time of the moon's first quarter. From the statistical study, Dr. Whipple suggests that the existence of moonlight is correlated with the phenomena. Dr. Whipple's frequency diagram of observations vs. age of moon is included in this report.

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It should be noted that Dr. Whipple made a careful study of meteor photographs taken in New Mexico on 35 nights when observations were reported. None of the photographs revealed the presence of unusual sky phenomena.

Finally, the overall picture obtained from the year of vigilance and inquiry does not permit a conclusive opinion concerning the aerial phenomena of interest. The comparatively high incidence of the phenomena since 1948 does not necessarily indicate that the objects are man-made. It is conceivable that the earth may be passing through a region in space of high meteoric population. Also, the sun-spot maxima in 1948 perhaps in some way may be a contributing factor.

6. Recommendations

Since the findings to date cannot be considered conclusive, it appears that the following recommendations would be pertinent:

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(1) No further fiscal expenditure be made in pursuing the problem. This opinion is prompted partly by the fruitless expenditure during the past year, the uncertainty of existence of unexplainable aerial objects, and by the inactive position currently taken by Holloman AFB as indicated by the "stand-by status" of the project. The arrangements by HAFB for continued vigilance by Land-Air, the weather station as well as the briefing of pilots on the problem in part relieves the need for a systematic instrumentation program.

(2) Within the next few months, Dr. Whipple will have completed the installation of two 18-inch Schmidt cameras for meteor studies. The cameras will be stationed about 20 miles apart in the vicinity of Las Cruces, New Mexico. Since these studies will be sponsored by the GRD, arrangements can be made for examining the film for evidence of aerial object phenomena.

LOUIS ELTERMAN  
Project Scientist  
Atmospheric Physics Laboratory  
Geophysics Research Division

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Summary of Recent Aerial Phenomena Reports from 17th OSI District

11 Nov. 1950 - Reports of a large-sized balloon. It was determined that this was released by General Mills. The balloon subsequently was recovered.

13 Jan. 1951 - Report from ten Los Alamos employees. Tear shaped object with small tail; very bright appearance; descended slowly; sky lighted up for about 1 sec; observation time 05:00.

16 Feb. 1951 - Aerial object reported in the vicinity of Holloman AFB. This turned out to be a General Mills balloon functioning for Project "Skyhook".

19 Feb. 1951 - A C-54 pilot reported a green flare or rocket observed in the vicinity of Rodeo, N.M. Its motion was vertical and passed the plane at 9000 ft. Investigators believed this to be a meteor.

6 Mar. 1951 - Report from four Los Alamos personnel of very bright object crossing sky. Also observed by two Kirtland AFB pilots who reported this as a meteor; time - 14:30; reported by Dr. La Paz to be a detonating fire-ball. No fragments recovered.

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- 12 Mar. 1951 - Report from Albuquerque, N.M. by two individuals of ball-shaped object, shining-white appearance. The object descended rapidly to the horizon.
- 1 April 1951 - Report from a Los Alamos employee. Oblong shaped object moving slowly both in horizontal and vertical directions. Bright appearance.
- 7 June 1951 - Report from a Los Alamos employee. Pointed cylinder in vertical position. Cloth-like construction. Fell in canyon at 11:10 A.M. Search party was unable to find the object or any remains.
- 8 June 1951 - Report from a Los Alamos employee. Large reddish dot, dull appearance which turned bright green. Observed for three seconds.

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CERTIFICATE

11 July 1951

On 10 and 11 July 1951, Sgt. Jack Meadows who is stationed at the Corona Experimental Radar Site about 18 miles southwest of Corona, New Mexico made the following verbal report to Capt. Dyvad and myself:

About 2230, 9 July 1951 I noticed a red glowing ball of light about the size of a full moon to the west or west south west of the station low above the horizon. I called the civilian Security Guard, Mr. Alfonso Sandoval, and we both watched it slowly descend for about thirty seconds before it went below the trees. There was an after-glow for another ten seconds. No sound was heard that might have come from the object. Visibility was slightly poor and although some stars could be seen, there were dark clouds over part of the sky. The light was nearly circular in shape and uniform in the red glowing color.

EDWARD A. DOTY  
Major, USAF  
Holloman AFB

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BELL AIRCRAFT CORPORATION  
POST OFFICE BOX ONE, BUFFALO 5, NEW YORK

UNCLASSIFIED

March 15, 1951  
HAFB: 32:1:0315-1:DR

Memo to: Lt. John G. Albert  
Operations and Projects  
Holloman Air Force Base, New Mexico

Subject: Unidentified Flying Objects

The following Bell Personnel reported the sighting of unidentified flying objects on March 14, 1951:

Clifford Heskew  
Lawrence Weber  
Floyd Lane  
Walter Rosenthal  
Jerry Donavan

Jerry Baker  
James Mott  
George Karres  
Dexter Rosen

The above personnel are located at the Bell Hardstand awaiting the return of B-50 No. 6002, following the completion of a Captive Flight mission.

Mr. Heskew made the first sighting at approximately 1500 hours while following the flight path of the B-50, which at that time was flying on a southerly heading at an altitude of approximately 15,000 feet NSL east and slightly south of the base. At the first sighting due neither to the distance involved or small individual size of the objects, Mr. Heskew attached little significance to the phenomenon thinking perhaps that it was a flock of birds at a considerable distance. However, in a minute or so he began to think otherwise and called the matter to the attention of Messrs. Lane and Weber. At the time his sighting was verified by the latter two men, the elevation angle of the bodies appeared to be greater than that of the B-50 which had progressed a few miles further south and east of the Field.

The motion of the bodies (estimated at between 14 and 20 in number) appeared to be of a swirling nature, not unlike a flock of towering geese or a handful of leaflets in an up-draft. Either due to distance or size, it was impossible to resolve individual shape, however, the general impression was gained that the bodies were white.

Several minutes after the first sighting the writer and others were apprised of the phenomenon. At this time, the B-50 had turned to the left on a reciprocal heading and was approximately east of the Field at the same altitude. The bodies continued to swirl in somewhat random fashion and increase apparent elevation angle. During this time

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March 15, 1951  
HAFB:32:1:0315-1:DR

they appeared to move slowly to the north regrouping on at least two occasions into what appeared to be a V-Formation. At this time the writer apprised General Control of the phenomenon and thereafter attempted to give them bearings as seen from the Bell Hardstand.

Shortly before Queen-1 was notified, the bodies had grouped into a V-Formation and commenced heading generally northward. The bearing heading from the Hardstand changed from nearly due east to a position lined up with Sierra Blanca in what seemed to be a few minutes time. This gave the impression of relatively high velocity. When last seen the bearing heading from the Bell Hardstand was slightly west of Sierra Blanca.

Impressions gained by various Bell Personnel were as follows:

- a. Not unlike a handful of leaflets thrown from an airplane.
- b. Vibratory motion of individual bodies reported occasionally not unlike flapping of wings.
- c. Total time of observation, from time of first sighting, was approximately 15 minutes.

It is of interest to note that the ground-to-air and air-to-ground VHF communications were generally very poor throughout the Bell mission which commenced at 1345 hours. The ground-to-ground VHF communications were however very good. In addition, for the last ten minutes of the B-50 flight VHF communication with the tower was extremely difficult as if another carrier was simultaneously in operation. When the writer contacted Queen-1 he was advised that they also were having communications difficulty.

As additional information, winds aloft to 27,000 feet were generally west-northwest, estimated at 30 to 40 knots. The writer is morally certain that the phenomenon he witnessed could not have been balloons of Project Sky-Hook.

In conclusion, the writer wishes to emphasize that the aerial phenomenon was different from anything he has ever seen up to and including flights of birds.

BELL AIRCRAFT CORPORATION

/s/ DEXTER ROSEN  
Dexter Rosen  
Field Test Director

DR/m

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AFMRS-4

SUBJECT: Light Phenomena

14 September 1949

TO: Commanding General  
Air Materiel Command  
Wright-Patterson AFB  
Dayton, Ohio

1. Since the establishment of the special project at Hq AMC, (Project GRUDGE), to investigate and analyze reports on so-called "Flying saucers" and unidentified aerial phenomena, many reports have been received through intelligence channels from persons who have observed what they considered to be unusual light phenomena. Foremost in this category have been those which are described as "green fireballs".

2. Analysis by various specialists has indicated that many of the incidents involving light phenomena were undoubtedly observations of natural phenomena. Particular attention was given to the "green fireball" variety by Dr. Joseph Kaplan, member of the USAF Scientific Advisory Board. Dr. Kaplan has concluded that the "green fireballs" are natural phenomena.

3. Correspondence relative to Dr. Kaplan's conclusions on the phenomena and correspondence relative to a request from the Second Armored Division, Camp Hood, Texas, for scientific investigation of similar phenomena, are forwarded for your information.

4. The Air Materiel Command has under contract several organizations in the Boston area that are specialists in observing techniques and the interpretation of celestial phenomena. It is desired that these organizations be consulted regarding the "green fireball" phenomena. If necessary, consideration should be given to the establishment of an observational program designed to obtain additional information necessary to an explanation of the phenomena.

5. A meeting at Sandia in the New Mexico area is scheduled for the middle of October to continue discussions of the light phenomena. It is requested that representatives from Air Force Research Laboratories Base Directorate for Geophysical Research attend.

6. This Headquarters should be apprised of the progress of the evaluation and the results of the Sandia meeting as soon as possible.

BY COMMAND OF THE CHIEF OF STAFF:

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3 Incls:

1-4th Ind to GSUSA w/bltr  
& Incls (cy) dtd 9/1/49

2-Cy ltr to Dr Kaplan  
dtd 8/9/49

3-Cy ltr fm Dr Kaplan  
dtd 7/31/49 w/incls

*enclosure*

/s/

JOHN McK. TUCKER

Lt Col, USAF

Actg Chief, Geophysical Science  
Directorate of AF

OFFER, 1949

RECEIVED AFMRS-4  
AFTER 15 YEARS

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Auth: C.G., AMC  
Initials: \_\_\_\_\_  
Date: \_\_\_\_\_

WCCO

SUBJECT: Light Phenomena

TO: Director of Research and Development  
Headquarters USAF  
Washington 25, D.C.

1. Reference is made to:

a. Headquarters USAF (AFMRS-4) letter, dated 14 September 1949, subject: "Light Phenomena." (See Inclosure No. 1).

b. Cambridge Research Laboratories letters, dated 7 November 1949, subject: "Report of Conference on 'Green Fireballs' (Project Grudge)." (See Inclosure No. 2).

2. A report of the conference held at Los Alamos on the subject of phenomena observed in the New Mexico area is forwarded as inclosure No. 2. Inasmuch as the phenomena appears to be atmospheric in nature it is recommended that the investigation continue under the Air Force Geophysical Research Program. In order to establish such a project it is requested that Research and Development Board approval be accomplished and that necessary funds be provided.

FOR THE COMMANDING GENERAL:

Incl:

- 1 - See par 1 a abv
- 2 - See par 1b abv

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Copy of basic letter

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(S-100/176)

**AIR FORCE CAMBRIDGE RESEARCH LABORATORIES**

FCEO/epa

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In reply, address  
Commanding Officer.  
Attn: ERH

230 Albany Street  
Cambridge 39, Mass  
7 November 1949

**SUBJECT:** Report of Conference on "Green Fireballs"  
(Project Grudge)

**TO:** Commanding General  
Air Materiel Command  
Wright-Patterson AFB  
Dayton, Ohio  
ATTN: MCREEO, Major G.H. Duncan

1. In accordance with instructions contained in classified letter from Chief of Staff, USAF to CG, AMC, subject "Light Phenomena," 14 September 1949, the undersigned attended a conference at Los Alamos on the subject of a phenomena observed in the northern New Mexico area. The phenomena has the appearance of a green fireball and because of the fact that it has been observed only (as far as can be determined) in the northern New Mexico area and only since the year 1947, has caused a high degree of apprehension among security agencies in the area. Two reports from the 17th District Office of Special Investigations (inclosures 1 and 2) summarize present information on the phenomena. In view of the fact that the phenomena has been observed by independent and trained observers there is little doubt that something was actually observed.

2. Inclosure 3 lists those personnel attending the conference.

3. The first part of the conference was devoted to a summary presentation of all collected and organized observational information regarding green fireballs. The presentation was made by Dr. Lincoln LaPaz (Professor and Head of Department of Meteoritics and Mathematics, University of New Mexico) and Capt. Melvin E. Neef (17th District OSI, USAF). Dr. LaPaz has been cooperating with the OSI investigators in the matter at their request and on an unpaid basis. Capt. Neef is the principal OSI agent on the case. Both Dr. LaPaz and Capt Neef have personally and independently observed the phenomena.

4. The second part of the conference was a discussion by the scientists present of various possible explanations and hypotheses concerning the phenomena. Little success was had.

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Ltr ERH to CG, AMC, Subj: Report of Conference on "Green Fireballs"  
(Project Grudge)

5. It was the conclusion of the group present at the meeting that the present information on the phenomena was not sufficiently quantitative and objective to allow any profitable scientific consideration. Instrumental observations (especially photographs, triangulation, and spectroscopic) were considered as essential.

6. Dr. Joseph Kaplan, who was officially representing the Scientific Advisory Board, USAF at the meeting, plans to report the problem to the next meeting of the Board (2 and 3 November) 1949 with the recommendation that the USAF provide a suitable investigation of the phenomena using the Geophysical Research Directorate, Air Force Cambridge Research Laboratories, AMC as the agency for the project.

7. It is the opinion of this office that the Geophysical Research Directorate, AFCRL, is capable of performing the required investigation (by photographic and spectroscopic means) provided that necessary funds, personnel authorizations and equipment are provided. Inasmuch as the phenomena appears to be atmospheric in nature, such an assignment is considered appropriate.

FOR THE COMMANDING OFFICER:

3 Incls:

1. Summary #1
2. Summary #2 (in dup)
3. Personnel at mtg

787 Frederic C. E. ODOR  
Major USAF  
Acting Director  
Base Directorate for  
Geophysical Research

cc: Major D. Crowson, Hq USAF

enclosure #2

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HEADQUARTERS  
AIR MATERIEL COMMAND  
Wright-Patterson Air Force Base  
Dayton, Ohio

MCGO

9 December 1949

SUBJECT: Light Phenomena

TO: Director of Research and Development  
Headquarters, USAF  
Washington 25, D. C.

1. Reference is made to:

a. Headquarters USAF (AFMRS-4) letter, dated 14 September 1949, Subject: "Light Phenomena." (See Inclosure No. 1.)

b. Cambridge Research Laboratories letter, dated 7 November 1949, subject: "Report of Conference on "Green Fireballs" (Project Grudge)." (See Inclosure No. 2.)

2. A report of the conference held at Los Alamos on the subject of phenomena observed in the New Mexico area is forwarded as inclosure No. 2. Inasmuch as the phenomena appears to be atmospheric in nature, it is recommended that the investigation continue under the Air Force Geophysical Research program. In order to establish such a project it is requested that Research and Development Board approval be accomplished and that necessary funds be provided.

FOR THE COMMANDING GENERAL:

Incl:

- 1 - See par la abv
- 2 - See par lb abv

/s/ M. B. Lammers  
M. B. LAMMERS  
Technical Assistant  
Deputy to the Command General  
for Operations

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Basic Letter

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Bas Ltr fr Hqs AMC, Wright-Patterson Air Force Base, Dayton, Ohio  
dtd 9 December 1949, Sub: Light Phenomena

AFMRS-4 1st Ind  
Department of the Air Force, Hq., USAF, Wash. 25, D. C. 20 December 1949

TO: Commanding General, Air Materiel Command, Wright-Patterson Air  
Force Base, Dayton, Ohio

1. This headquarters concurs in the establishment of a project within the Air Force Geophysical Research Program in order to further investigate and secure quantitative data on the "Light Phenomena" observed in the Southwestern United States.
2. Prior to securing the approval of the Research and Development Board and accomplishing the necessary reprogramming within the Geophysical Sciences Budget, it will be necessary for you to prepare a project plan. This plan should include a statement of the problem, method of accomplishment, money, facilities and personnel required to make the necessary measurements. The funds requirement should be stated by object classification.
3. When this necessary information has been received from your command, this headquarters will take appropriate action to secure Research and Development Board approval. As soon as an approval is forthcoming, your command will be requested to initiate the project.

BY COMMAND OF THE CHIEF OF STAFF:

Incls.  
w/a

B. G. HOLZMAN  
Colonel, U.S.A.F.  
Chief, Geophysical Sciences Branch  
Directorate of Research & Development  
Office, Deputy Chief of Staff, Materiel

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Bas Ltr fr Hqs, AMC, Wright-Patterson Air Force Base, Dayton Ohio  
dtd 9 December 1949, Sub: Light Phenomena

2nd Ind.

Hq AMC, Wright-Patterson Air Force Base, Dayton, Ohio 17 May 1950

TO: Director of Research and Development, Hq, USAF, Washington 25, D. C.  
ATTN: AFMRS-4

1. Since the date of basic correspondence this Command has been able to initiate subject project on a limited basis utilizing personnel and equipment which have become available at Holloman Air Force Base. For your information the investigation involves the following observational techniques:

a. Optical tracking with Askania photo theodolites in order to provide trajectory data and photo records.

b. Optical spectro-photography using standard cameras with suitable diffraction gratings.

c. Radio spectrum analysis through the range from 500 kc to 4000 mc. This portion of the program will be shortly started with the Signal Corps providing equipment and personnel.

2. The request of this Command as contained in Paragraph 2 of basic correspondence is withdrawn. In view of this, prior RDB approval for the project is not believed necessary. This Command will take action to coordinate the project through normal channels.

3. In order to better evaluate the results of the investigation outlined in Paragraph 1 above, it would be very desirable to have the activities of the 17th District OSI at Kirtland Air Force Base re-initiate in making field investigations of light phenomena reports. Such reports would be important in the verification of any results of the project work at Holloman. It is therefore requested that action be taken for re-initiation of the 17th District OSI investigations for the period of this project.

FOR THE COMMANDING GENERAL:

S, R, BRETNALL  
Major General, USAF  
Director,  
Research and Development

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2nd endorsement

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Extract of Letter from AFCEC, dated 15 September 1950, Subject: Status of Project Twinkle

TO: Commanding General  
Air Materiel Command  
Attn: MOREEP-4 Major J. W. Kodis  
Wright-Patterson Air Force Base, Dayton, Ohio

"If no fire balls are observed in the next six month period, it is recommended that the project be discontinued. In a phenomenon as sporadic as the fire balls appear to be, it is felt that at least one year is required in order to establish whether their occurrence is or is not a seasonal phenomenon.

4. There is considerable doubt in the minds of some of the project personnel that this is a natural phenomenon. As long as a reasonable doubt exists, it is not wise to discontinue entirely the observations. Dr. Whipple's suggestion that these may be moon reflections on small clouds cannot be discounted. That fire balls have been observed in the past cannot be discounted due to the reliability of several witnesses. It may be considered significant that fire balls have ceased abruptly as soon as a systematic watch was set up. At present it does not appear likely that the next six months of observations will yield any more information than the first six months, but it is felt that even negative information may be significant.

5. It is requested that a six month extension of the Land Air contract be negotiated. It is also requested that the spectrographic equipment abandoned by Holloman Air Force Base due to lack of personnel be turned over to Land Air for operation in the next six month period. At the conclusion of the six month extension, an evaluation of the observations will be accomplished by this Directorate and recommendations as to the future conduct of this project will be forwarded to your command."

copy

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(UNCLASSIFIED) Project TWINKLE

Directorate of Intelligence  
Attention: Colonel John G. Erickson, Chief  
Technical Capabilities Branch  
Research Division, Directorate of Research and  
Development, Office, DCS/Development

19 Feb 1952

1  
Lt Col Clayton/djh/52207  
AFDRD-RE

1. Attached is a copy of a letter from the Air Research and Development Command requesting declassification of Project TWINKLE, a project which was carried out by AMC and ARDC for investigation of unusual light phenomena in the general area of Holloman Air Force Base and Vaughn, New Mexico.
2. The Scientific Advisory Board Secretariat has suggested that this project not be declassified for a variety of reasons, chief among which is that no scientific explanation for any of the "fireballs" and other phenomena was revealed by the report and that some reputable scientists still believe that the observed phenomena are man-made.
3. In view of the great interest of the Directorate of Intelligence in such phenomena and the related manifestations, evaluation of the final report of Project TWINKLE with a view to its declassification is requested.

2 Incls

1. cy ltr fr ARDC to Hq 14 Jan 52
2. cy of Proj TWINKLE Final Report

ALBERT E. LOMBARD, JR.  
Chief, Research Division  
Directorate of Research and Development  
Office, Deputy Chief of Staff, Development

JOHN H. CLAYTON  
Lt Colonel, USAF

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1  
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AFOIN-V/TC  
Capt Fournet/ro/56894  
Wrtm 4 Mar 52

(Unclassified) Project TWINKLE

UNCLASSIFIED

Directorate of Research and Development, DCS/D  
ATTN: Research Division

7 MAR 1952

Directorate of Intelligence, DCS/O

Capt Fournet/ro/56894  
AFOIN-V/TC

1. The attached report on project "Twinkle" has been carefully reviewed by the Directorate of Intelligence with a view to its possible declassification and preparation of a suitable press release.

2. It is not considered appropriate to declassify the project at this time since no definite conclusions have been reached concerning the origin or nature of the phenomena which have been investigated. It is believed that a release of the information to the public in its present condition would cause undue speculation and give rise to unwarranted fears among the populace such as occurred in previous releases on unidentified flying objects. This results from releases when there has been no real solution. This project is part of a larger program which is known as project "Grudge" and which has been established to investigate reports of all unidentified flying object sightings. Project "Grudge" is still in the investigative analysis stage and has not as yet been thoroughly evaluated. Until such time as it is possible to correlate the information from all such related incidents, it is not considered advisable to declassify any portion of the overall program.

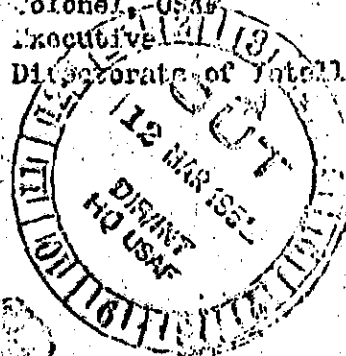
3. However, the Directorate of Intelligence will continue its past policy of treating such incident as a separate case and will recommend the release of information on sightings which appear to warrant publication.

2 Incls  
n/c  
*for distribution*

When inclosure(s) No. *12*, is (are) withdrawn or not attached, the classification of this correspondence will be cancelled or changed to ~~CONFIDENTIAL~~ in accordance with *Mr. 239, AFR 203-1.*

No W/R required

H. J. KIELING  
Colonel, USAF  
Executive  
Directorate of Intelligence



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DOD DIR 5800.10

AFOIN-V

AFOIN-A

AFOIN

UNCLASSIFIED

~~CONFIDENTIAL~~

March 11, 1953

Dr. Lincoln LaPaiz  
Director, Institute of Meteoritics  
University of New Mexico  
Albuquerque, New Mexico

Dear Dr. LaPaiz:

I enjoyed very much receiving your letter of 3 March 1953 and learning that the fireball phenomena is still continuing. I often think of the great assistance you so willingly gave us during that investigation. I have lost contact entirely since I came to Washington.

I do not know how much help it would be to Mr. Milligan to talk with OSI Agents on the subject, because as you know, the investigative reports are classified. However, this is a matter he should take up with the District Commander in the area concerned.

I expect to be in the 18th OSI District at Cheli Air Force Specialized Depot, Post Office Box 310, Hayward, California (part of Los Angeles) during the period 24 March through 5 April. I will be pleased to talk with Mr. Milligan or any member of the group during that time. However, as I pointed out previously, in view of the fact that the project is classified in our files, there would be very little I could discuss with him. If you wish to pass this on to Mr. Milligan it may be of some help to him. I am interested in the fact that they are going to initiate a study, but somehow I feel that a study of this nature cannot be successful if conducted on part time basis or as an extracurricular activity.

Let me again express my appreciation for your assistance to me while I was District Commander, 17th OSI District.

Best Regards,

Doyle Reed  
Colonel, USAF  
Plans and Policy Group  
Office of Special Investigations  
The Inspector General

24/857320

P. S.

Life Magazine representative spent some time with me recently. Same subject. Advised me he had talked with you also.

13 APR 53

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