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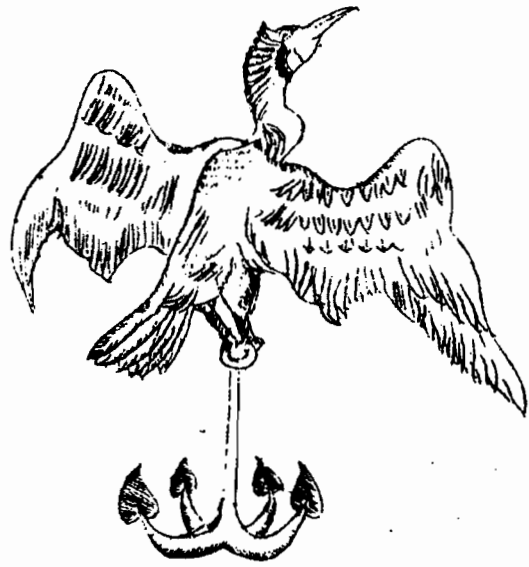


*Hall's Physics
Advisor*

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PERSONNEL SAFETY
PLAN



OPERATION GRAPPLE


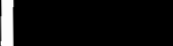
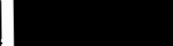
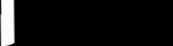

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AMENDMENT LIST

A.L. NO.	DATE	DATE INSERTED	INSERTED BY - INITIALS
1	9-6-58	12-4-59	
2	12-6-58	12-4-58	
3	17-6-58	22-4-58	
4	18-6-58	22-6-58	
5	22-6-58	22-4-58	

Headquarters Task Force Grapple,
Royal Air Force Christmas Island,
British Forces Post Office 170.


GRA/8/26/AIR

9th April, 1958

PERSONNEL SAFETY PLAN

AMENDMENT LIST NO.1

Page 5, para.4.h., line 1. :- After "Service/Establishment"
insert ", as shown at para.3.f. (1) to (5),"


Flight Lieutenant,
Secretary
Task Force Grapple

Distribution

As for Personnel Safety Plan.

Headquarters Task Force Grapple,
R.A.F. Christmas Island,
British Forces Post Office 170.

12th April, 1958.

GRA/8/26/Air.

DISTRIBUTION SEE BELOW

Personnel Safety Plan

1. Amendment List No.2 to the above mentioned plan is shown below, and is to be incorporated in all copies of the plan, and the amendments page annotated accordingly.

Amendment List No. 2.

Serial No.

1. Page 2, para. 3. b. (5) - Delete " [REDACTED] A.W.R.E." and insert " [REDACTED] A.W.R.E."
2. Distribution - (a) Under A.W.R.E., after "Trial Planning Officer" delete "and Area Commander 'C' Site".
- (b) Below "Senior Admin. Officer (3 copies)", insert "Area Commander Forward Control [REDACTED]".

[REDACTED]
Flight Lieutenant
Secretary
Task Force Grapple.

DISTRIBUTION

As for Personnel Safety Plan.

INDEX

Amendments Page.

Index.

Personnel Safety Plan .

Distribution.

Annex 'A' - Timetable.

Annex 'B' - Communications.

Annex 'C' - Action if Accident on Take-Off.

Annex 'D' - Safety Procedure on Burst.

Annex 'E' - Medical Arrangements.

Annex 'F' - Monitoring Arrangements

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Headquarters Task Force Grapple,
Royal Air Force,
Christmas Island,
B.F.P.O. 170.

5th April, 1958.

GRA/8/26/AIR

OPERATION GRAPPLE 'Y'

PERSONNEL SAFETY PLAN

1. SITUATION.

a. During the Firing Phase of the Operation, that is, from the time the Valiant is cleared for take-off for the bombing sortie to the actual burst of the weapon, the maximum possible precautions must be taken to safeguard personnel from the effects of a possible explosion resulting from an accident on take-off, or landing, should the Valiant have to return with the weapon, and from the planned explosion.

b. Although an accident on take-off is most unlikely, should it happen, there is a risk of a small yield explosion producing radio-activity that might make part of the island uninhabitable. In this case all personnel from the affected locality are to be evacuated to a safe area.

c. When the weapon explodes at its planned position, it is essential that adequate precautions are taken to protect personnel from heat pulse and blast effects.

d. To ensure that every single individual on the island is accounted for, properly dressed and briefed, before the bombing aircraft takes off, personnel are to be categorized and located in accordance with their duties.

e. The precautions necessary for the personnel in airborne aircraft, in ships of the Grapple Squadron, and to safeguard material, are dealt with in separate orders.

f. The island will be divided into nine areas and a Commander appointed for each who will be responsible for implementing the instructions set out in this Plan.

2. MISSIONS. To ensure the safety of every person on Christmas Island during the Firing Phase.

3. EXECUTION.

a. Command and Control. The Deputy Task Force Commander, located at the J.O.C., will be in overall control of the Personnel Safety Plan.

b. Personnel Control. Christmas Island has been divided into nine separate areas for personnel control purposes. Each area has its own Commander who will be responsible to Headquarters Task Force Grapple for the correct implementation of this Plan in his area. These areas and their Commanders are as follows:-

(1) Port Area

(2) Main Camp

(3) Airfield

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(4) The J.O.C.
(including Transmitter Station,
J.C.C., Power Station,
A.W.R.E. Buildings, and
Radio Sunde and M.F.
beacon).

[REDACTED]

(5) Forward Control ("O" Site)

[REDACTED] A.W.R.E.

(6) Decca Monitor (Responsible
for Master and Slave Stations)

[REDACTED]
(to liaise with [REDACTED]
of the Decca Naviga-
tor Coy.).

(7) "X" Site

[REDACTED]

(8) "Y" Site

[REDACTED]

(9) Four Wells

[REDACTED]

c. Stages. There are two stages in the Firing Phase, as follows:-

(1) Take-Off Stage. This stage includes the action to be taken in the case of an accident on take-off (or in the event of the aircraft having to land back with the weapon).

(2) Burst Stage.

d. Briefing and Marshalling. Area Commanders are to brief and arrange for marshalling, accounting, and reporting of personnel, under their command, and for the necessary transport to meet evacuation requirements for these two stages, in accordance with the Timetable at Annex "A" and paras. 4-o, 4-e, and 4-h. to 4-k. inclusive below.

e. Categorization of Personnel. All personnel on the island are to be categorised as under:-

(1) Category "A". Personnel who must remain at their posts if there is an accident until ordered to evacuate.

(2) Category "B". Personnel on duty who can be evacuated immediately if an accident occurs.

(3) Category "C". All other personnel.

f. Responsibility for Categorizing personnel. This responsibility is as under:-

(1) All Army personnel other than those on the posted strength of Headquarters Task Force Grapple or sponsored by A.W.R.E. Commander, Army Task Group.

(2) R.N. and R.M. personnel other than those on the posted strength of Headquarters Task Force Grapple. R.N.O.

(3) All R.A.F. personnel and sponsored civilians other than those covered by O.C. R.A.F. Christmas Island.

(4) below.

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(4) All personnel employed in the J.O.C. area, "X" and "Y" Sites, Transmitter Station, M/F Beacon, Radio Sonds.

Secretary, Task Force Headquarters.

(5) A.W.R.E. and sponsored Service personnel.

Trial Planning Officer.

g. Marshalling and Accounting for Personnel during Both Stages of the Operation (In accordance with findings shown at Annex "A").

(1) Category "A" and "E" Personnel are to be checked at their place of duty by an officer or officers detailed by the Area Commander.

(2) Category "O" Personnel are to be marshalled and checked on the J.O.C. road under arrangements made by Commander Main Camp Area and, in the case of the Port, at an area in the Port selected by Commander Port Area.

(3) Gilbertese Population. The Port Area Commander is to arrange for the Gilbertese population to be assembled, accounted for, and embarked in a ship of the Grapple Squadron as directed by Captain Grapple Squadron.

h. Action in the Event of an Accident on Take-Off. The scene likely to become contaminated by radio-active fall-out, resulting from an accident on take-off, will be predicted before take-off, and the correct direction for evacuation from the danger zone decided at J.O.C. The route or routes for this will be broadcast on the P.A. System. There are three evacuation routes by road as follows:-

- (1) South to the coast - signposted RED.
- (2) To the Port - signposted BLUE.
- (3) To the north-west corner - signposted YELLOW.

The codeword PIED-PIPER followed by the area or areas affected, indicates that an accident has occurred and that evacuation of personnel is to begin. This codeword will be announced over the P.A. and telephone system. The action on PIED-PIPER, to be taken by Area Commanders, is given at Annex "O".

In the case of evacuation of the Port Area, craft will be vectored North or South after reaching the anchorage as ordered by Captain Grapple Squadron.

j. Procedure at the Time of Burst. The procedure to be taken by Area Commanders is given in Annex "D". In their briefing they are to ensure that EVERY INDIVIDUAL UNDER THEIR COMMAND IS MADE FULLY AWARE OF THE POSSIBLE DANGER TO HIS EYES IN ORDER TO TURN AWAY FROM GROUND ZERO, CLOSE AND COVER HIS EYES, ARE NOT IMPLICITLY OBEYED. SPECTACLES AND SUN GLASSES MUST NOT BE WORN DURING THE PERIOD FROM COUNT-DOWN UNTIL AFTER THE BLAST WAVE HAS PASSED.

k. Procedure Immediately after the Burst. Immediately after the count-up, (from burst to 20 seconds after burst) Category "O" personnel are to remain seated in their assembly area, and personnel of Category "A" and "B" who can leave their place of duty for a few minutes are to move into an open space pre-selected by Area Commanders. Those who cannot leave are to wear steel helmets and take advantage of cover provided inside the building. Those with duty inside steel or concrete shelters need not wear steel helmets.

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/4. ADMINISTRATION

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4. ADMINISTRATION AND LOGISTICS.

a. Security. Before proceeding to their place of duty or marshalling area all ranks are to ensure that public and private cash, documents, and records are secured. Personnel are also to ensure that their personal kit is stowed neatly to avoid it being blown about.

b. Catering. O.C. R.A.F. Christmas Island is to make arrangements as under.

(1) Breakfast for all personnel in messes. These meals are to be completed by 05.30 hours Local Time.

(2) Provision of a haversack ration for consumption after "stand-down".

(3) Mobile kitchens and transport to carry reserve rations and water for 48 hours.

(4) Facilities at the airfield buffet to cater for air and ground crew as required. No meals are to be served after 0530 hours.

(5) Breakfast to be served in Forward Control as requested by the Area Commander.

All personnel who hold a knife, fork, spoon and tray on personal charge are to carry them. On reporting to Assembly Area trays are to be stacked in vehicles. Catering arrangements in the Port Area are to be as ordered by the Port Area Commander.

c. M.T. Area Commanders are responsible for making arrangements to provide sufficient transport for the evacuation of all categories of personnel. The M.T. Allocations Committee, formed as under is to handle deficiencies:-

D.A.A. and Q.M.G., Headquarters Army Task Group.

M.T. Officer, R.A.F. Christmas Island.

A representative of A.W.R.E. detailed by the Scientific Director.

d. Recovery. O.C. 38 Corps Engr. Regt. is to arrange for vehicle recovery facilities for the Airfield and Main Camp convoys.

e. Loading of M.T. To provide maximum lift, transport is to be loaded to capacity as under:-

Landrovers	10
1 ton trucks	20
3 ton trucks	36
10 ton trucks	50
Scammell and Low Loader (rigged with lifelines)	50
Queen Mary	40
Tippera	30

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Headquarters Task Force Grapple,
R.A.F. Christmas Island,
British Forces Post Office 170.

18th April, 1958.

DISTRIBUTION SEE BELOW

GRA/8/26/Air.

Personnel Safety Plan

1. Amendment List No.4 to the above mentioned plan is shown below, and is to be incorporated in all copies of the plan.

Amendment List No. 4.

Serial No.

- 1. Page 5, paragraph 4.f. Dress (1). Delete third sentence "Area Commanders are to in their area."

Insert:-

"Demands are to be prepared and equipment issued by Services as follows. All Army personnel by O.C. 38 Corps Engr. Regt. R.E. All R.N. and R.M. personnel by R.N.O. All R.A.F. and sponsored civilians by R.A.F. Christmas Island. All A.W.R.E. and service element by Trial Planning Officer A.W.R.E.

Demands are to be submitted to the Senior Equipment Officer, R.A.F. Christmas Island by not later than 1000 hrs. Tuesday 22 April.

Time and method of issue in bulk will be notified by R.A.F. Christmas Island. The time by which all individuals are to be issued and when they are to wear them will be ordered by Headquarters Task Force Grapple."

[Redacted signature block]

Secretary
Task Force Grapple.

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As for the Personnel Safety Plan.

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f. Dress.

(1) Protective suits, Flash hoods and Gloves. These will be provided and are to be worn from the Burst Stage. Personnel are to parade wearing a long-sleeved shirt, long trousers, boots or shoes and a hat, carrying their protective clothing. ~~Area Commanders are to submit demands to O.C. R.A.F. Christmas Island for the required number of suits, gloves and hoods, for all personnel in their area.~~ H.Q. Task Force Grapple will order when this equipment is to be issued to individuals and used. On no account are suits to be altered or damaged.

(2) Steel Helmets. Area Commanders are to submit demands for steel helmets to O.C. R.A.F. Christmas Island for those requiring them.

g. Numbers by Category and Location. The first forecast of numbers of personnel in each category and their location at X - 30 will be issued separately when available.

as shown at para. 7 (1) to (5)

h. Nominal Rolls. By 15th April, 1958 each Service/Establishment is to forward a nominal roll to the Commander of each area in which their personnel will be located on D Day. As far as possible no change will then be made to these lists. Any changes due to operational requirements, sickness etc., are to be notified at once to the Area Commander concerned. **THE CHECKING OF ALL NOMINAL ROLLS, THE FINAL CHECK OF ALL PERSONNEL AGAINST THESE ROLLS AND THE RENDERING OF THE FINAL PARADE STATES IS THE RESPONSIBILITY OF AREA COMMANDERS AND THEY ARE TO CARRY THESE OUT IN ACCORDANCE WITH THE TIMETABLE AT ANNEX "A".**

j. Evacuation Routes. O.C. R.A.F. Christmas Island is responsible for ensuring that evacuation routes are reconnoitred and clearly signposted in the appropriate colour.

k. Briefing. Area Commanders are to brief all personnel on the effects of a nuclear explosion and the precautions to be taken against these. Notes for guidance on this subject will be issued.

5. COMMAND AND SIGNALS.

a. Command. The Deputy Task Force Commander is located at the J.O.C. Communications for him should be made through the Ground Controller at the J.O.C. (telephone extension 635 or 636).

b. Command in the Evacuation Area. In the event of evacuation of any area being ordered, O.C. R.A.F. Christmas Island is to assume command of all personnel arriving in the area to which they have been evacuated. The responsibility for the evacuation from the Port of Port Area personnel is that of the R.N.O. who will command the evacuation. The evacuation flotilla will be under the operational control of Captain Grapple Squadron.

c. Public Address Positions. Public Address loudspeakers have been installed at the positions shown in Annex "B". Area Commanders are to arrange for their marshalling/assembly points to be near these positions, but in the case of Category "O" personnel the positions are to be in the open and clear of trees and buildings. As all communications are under the control of the C.S.O., Area Commanders must assess their requirements on the basis of Annex "B", and notify them to the C.S.O. direct by not later than 10th April.

d. P.A. System Failure. Reporting action to be taken in the event of a breakdown on the P.A. system is shown at para. 8 of Annex "B".

/6. This

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6. This order covers safety and security for two aspects of Grapple "Y", the Burst Stage and an accident on take-off or landing back with the weapon, both the latter are remote possibilities, but ones for which it is prudent to be prepared.

If there is any point at all which is not clear or hard to meet, I rely on Commanders clearing it during our rehearsal programme.

[REDACTED]

Commander
Task Force Grapple

C

Annexes

- A - Timetable - Personnel Safety Plan.
- B - Communications.
- C - Action if Accident on Take-Off.
- D - Safety Procedure on Burst.

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Headquarters Task Force

P.S.O. to T.F.O.
Scientific Director
D.T.F.G.
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Scientific Adviser
Scientific Superintendent
Air Ops.
C.S.O.
S.O.A.
C.T.O.
Int/Sec.
Secretary for File

Navy

Captain Grapple Squadron - 1 copy
R.N.O. - 6 copies
A.B.C.D. Officer - 1 copy

Army

Commander Army Task Group - 1 copy
H.Q. Army Task Group - 20 copies

R.A.F.

O.C. R.A.F. Christmas Island - 20 copies

A.W.R.E.

Trial Planning Officer and
~~Area Commander IGL Site~~ - [REDACTED]
Scientific Observer - [REDACTED]
Health Physics Adviser - [REDACTED]
Senior Admin. Officer (3 copies)
AREA COMMANDER FORWARD CONTROL [REDACTED]

Civilian Establishments

Decca Navigator Co.
Marconi Ltd.
N.A.A.F.I.
Fire Officer

Area Commanders (not already covered by above)

O.C. 217 Sqn. (Four Wells)
[REDACTED] - 'Y' Site
[REDACTED] - 'X' Site
(Liaison with Decca Navigator Co.)

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ANNEX 'A' TO
PERSONNEL SAFETY PLAN

TIMETABLE - PERSONNEL SAFETY PLAN - GRAPPLE 'Y'

1. Definition.

- a. Day of Drop - D Day.
- b. Time of Take-Off - X Hour.

2. The following table gives the time, action and Formation/Unit/Person responsible for taking such action.

<u>TIME</u>	<u>ACTION</u>	<u>RESPONSIBLE</u>
10 Apr.	Notification of Communication requirements to C.S.O.	Area Commanders
15 Apr.	Service/Establishments to submit nominal rolls by categories and locations to the Area Commanders concerned.	All Services and Establishments.
17 Apr.	Drawing in bulk of protective clothing.	Area Commanders on instructions received from Task Force H.Q.
D - 2	D Day notified to all concerned.	Task Force H.Q.
D - 1	X Hour confirmed to all concerned.	Task Force H.Q.
D - 1	Final check of nominal rolls for accuracy.	Area Commanders.
D - 1	Final check on transport availability by areas.	Area Commanders.
D - 1	Final check of route markings.	O.C. R.A.F. Christmas Island.
D - 1	Final check on mobile field kitchens, 48 hours reserve rations and water.	O.C. R.A.F. Christmas Island.
D - 1	Check that all personnel are in possession of full protective clothing.	Area Commanders.
<u>D Day</u>		
X - 60	1. Area Commanders Tactical Headquarters manned.	Area Commanders.
	2. M.T. manned and in position.	Area Commanders.
X - 55	Communications and time check, including Public Address and Telephone Network.	C.S.O./Ground Control/Area Commanders.
X - 40	1. All Category 'O' personnel in position at their assembly areas; all other category personnel at their place of duty.	Area Commanders.
	2. Roll calls commence.	Area Commanders.

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ANNEX 'A' TO
PERSONNEL SAFETY PLAN

- 2 -

<u>TIME</u>	<u>ACTION</u>	<u>RESPONSIBLE</u>
X - 25	Parade states reported to Task Force Headquarters Ground Control.	Area Commanders.
X - 20	Notification of evacuation routes over P.A. system.	Task Force H.Q.
X - 15	All Category 'O' embus; all vehicles manned. (Not applicable to Port Area).	Area Commanders.
X - 15	Parade state reported to T.F.C.	H.Q. Task Force Grapple
X Hour	"All clear" given over P.A. when Valiant airborne.	H.Q. Task Force Grapple
"All Clear" to X+30 mins.	Cat. 'C' personnel debus and move into open. Final Roll Call begins.	Area Commanders.
X + 35 mins	Final parade states reported to J.O.C.	Area Commanders.
X + 40 mins	Don protective clothing.	Area Commanders.
X + 50 mins	Final parade state reported to T.F.C.	J.O.C.
X + 60 mins onwards	Stand-by warning for Burst. All Cat. 'C' personnel are to sit down with backs to Ground Zero on this warning.	J.O.C.

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COMMUNICATIONS

ANNEX 'B' TO THE
PERSONNEL SAFETY PLAN

Public Address System

1. To enable the Ground Controller to keep Area Commanders and other dispersed personnel informed on the progress of the trial, a Public Address system has been installed with loudspeakers located at the following positions:-

<u>a. Main Camp (120 watts)</u>	<u>Type of Speaker</u>
(1) Telephone Exchange	I
(2) N.A.A.F.I.	I
(3) Sick Quarters	I
(4) Power Station	B
(5) Main Guardroom	I
(6) Airman's Mess	I
(7) Officers' Mess	I
(8) Sergeants' Mess	I
(9) Fire Section	I
<u>b. Airfield (60 watts)</u>	
(1) Air Traffic Control	I
(2) Weapons Assembly	I
(3) Explosive Assembly	I
(4) Decontamination Centre	I
(5) Telephone Exchange	I
(6) Power Station	B
(7) VHF TX & RX	I
(8) CR D/F	I
<u>c. 'X' Site (20 watts)</u>	
(1) Operations Room	I
(2) Power House	B
(3) Helicopter Dispersal	H
(4) Decoa Monitor	I
<u>d. 'Y' Site (20 watts)</u>	
(1) Shelter (2 locations)	H.H.
(2) Operations Room	I

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ANNEX 'B' TO THE
PERSONNEL SAFETY PLAN

	<u>Type of Speaker</u>
e. <u>J.O.C.</u> (20 watts)	
(1) W/T Cabin JCO	I
(2) Met. Room	I
(3) Power Station	B
(4) Telephone Exchange	I
(5) C.E.2	I
(6) VHF Transmitters	I
(7) M.F. Beacon	I
f. <u>Transmitting Station.</u> (20 watts)	
(1) Transmitter Hall	I
(2) Power Station	B
g. <u>Port (H.M.S. RESOLUTION)</u> (20 watts)	
(1) Power House	B
(2) Telephone Exchange	I

NOTE: I = Internal Speaker B = Roarer H = Horn

2. Main Assembly points will be provided with Public Address Speakers as follows:-

- | | |
|------------------------------|-----------------|
| a. Main Camp and J.O.C. Area | 4 Horn Speakers |
| b. Airfield Area | 4 Horn Speakers |
| c. Port Area | 2 Horn Speakers |

3. Remote positions are to report to their Area Commander that their Public Address loudspeakers are working correctly by X-55 minutes. These reports may be made verbally or by telephone as convenient. A telephone will be provided at each place where there is a loudspeaker or batch of loudspeakers.

4. Area Commanders' Tactical Headquarters location and telephone numbers will be published.

5. Beginning at X-55 minutes, the Ground Controller will telephone each Area Commander in turn to receive his report that all Public Address loudspeakers in his area are working correctly, and in the case of Decca Monitor that his telephone conference facility is correct. On receipt of all reports he will inform the O.S.O. of the situation.

Telephones

6. The O.C. 2 AFS is to arrange a radio link between the airfield PBX and the Decca Station in the SPAL area by D - 1 day, and to set up a conference facility such that the Decca Monitor Station can speak simultaneously to both outlying stations. This facility is required by X-60 minutes.

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ANNEX 'B' TO THE
PERSONNEL SAFETY PLAN

Reporting of Breakdowns of the P.A. System

7. A mobile emergency party comprising both Air Formation Signals line technicians and R.A.F. personnel will be standing by at J.O.C. with spare gear for the Public Address System. This party will be controlled by the Chief Signals Officer. From X-60 minutes, any position hearing nothing over the system for more than one minute is to report at once to the appropriate Area Commander Tactical Headquarters stating the nature of the defect if known. Tactical Headquarters are to report to the Ground Controller for Chief Signals Officer. If time permits, the fault will be rectified, otherwise action must be taken in accordance with para.6 of Annex 'D'.

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ACTION TO BE TAKEN IF AN ACCIDENT OCCURS AT TAKE-OFF
(ALSO COVERS ACCIDENT ON LANDING BACK WITH WEAPON).

1. On receipt of the codeword PIED-PIPER action is to be taken by Area Commanders, of areas affected, in accordance with the details given below:-

a. Category 'O' Personnel. Move off immediately under their Convoy Commander, on orders from the Area Commander, by the evacuation route notified.

b. Category 'B' Personnel. These personnel are to leave their place of duty, embus immediately, and move off in vehicles marshalled under arrangements made by Area Commanders.

c. Category 'A' Personnel. These personnel are only to leave their place of duty when orders are received from the J.O.C. over the P.A. System or by any other method of communication.

2. Port Area. Category 'B' and 'O' personnel are to be embarked immediately. Category 'A' personnel are to be embarked or uplifted as ordered by the J.O.C. to the Area Commander.

3. General. On the announcement of PIED-PIPER, Category 'A' and 'B' personnel in buildings or tents are to ensure as far as possible that windows, doors and flaps are closed. When ordered to evacuate these personnel are to see that the contents of the building or tent they evacuate are left in as safe a condition as possible.

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ANNEX 'D' TO
PERSONNEL SAFETY PLAN

SAFETY PROCEDURE ON THE BURST

1. General. During the final bombing run instructions will be announced over the P.A. System for personnel to sit down with their backs to Ground Zero, facing away from it, with eyes closed and covered. The announcement will be made when eyes can be opened.
2. Protective Clothing. Area Commanders are to instruct personnel under their command to don protective clothing by X + 40 minutes.
3. Announcements. The following announcements will be made:-
 - a. At minus 40 seconds from burst, - "CLOSE AND COVER EYES, FACE AWAY FROM GROUND ZERO".
 - b. Count down to time of burst which will be, - "MINUS 40 SECS, MINUS 30 SECS, MINUS 20 SECS, MINUS 15 SECS, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1 ---".
 - c. Count up from burst to plus 20 seconds.
 - d. At plus 20 seconds, - "OPEN EYES, YOU MAY NOW LOOK BUT REMAIN SEATED".
4. Steel Helmets. Area Commanders are to instruct those who have been issued with Steel Helmets, to put them on when "Open Eyes" is announced.
5. The Blast Wave. All personnel are to be reminded that a blast wave, accompanied by one or several bangs will occur some 60 seconds after the burst. A Stand-by warning will be broadcast. All Category 'C' personnel are to remain seated with backs to Ground Zero until the blast wave has passed. Category 'A' and 'B' personnel who move out into the open for the blast wave are also to sit down with their backs to Ground Zero.
6. Action on P.A. Breakdown. If, during the count-down, any part of the P.A. System fails, those affected are to close and cover eyes and remain seated facing away from Ground Zero until the blast wave has passed.

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ANNEX 'E' TO
PERSONNEL SAFETY PLAN
DATED 17TH APRIL, 1958

MEDICAL ARRANGEMENTS

1. Outline. Arrangements to provide emergency medical care for personnel on the island from X - 60 to stand-down are detailed below.

2. Disposition of Personnel

(a) Control Camp and 'Y' Site. [redacted] of A.W.R.E. will provide emergency medical aid to these sites under the direction of [redacted] A.W.R.E., who is responsible for Forward Control. He will have medical first aid stores and a landrover, but will arrange to evacuate any casualties after the burst.

(b) Airfield. The Crash Ambulance and crew will be available on the airfield under the control of the S.A.T.O.O. to provide medical aid to any aircraft accident. The normal crew will man this vehicle.

[redacted] will provide all other medical aid to this area, being accompanied by a nursing attendant and equipped with a land-rover ambulance containing medical stores to deal with any major casualty. He will be under the direction of the Area Commander.

(c) Main Camp. The Hospital will provide medical aid to any casualty occurring in the Main Camp, Main Camp Assembly Area, 'X' Site, J.O.C. and Four Walls area. The S.M.O., [redacted] will be situated at the Hospital to receive any casualty. From H - 15 minutes until the blast wave has passed, the hospital staff will be out of the Hospital buildings although in telephone contact with J.O.C. The S.M.O. will be responsible for the acceptance of casualties and redeployment of medical personnel as required. The Hospital as a whole will remain under the direction of the Area Commander.

(d) Port Area. [redacted] will provide medical aid required in this area, under the direction of the Area Commander.

3. Communications. Casualties are to be reported through Area Tactical Headquarters to the Medical Recorder at Army Task Group Tactical Headquarters Tel. No. J.O.C. 647. The information will be passed to the S.M.O. at the Hospital in Main Camp. In reporting casualties the following information is required:-

- (1) Site or Place
- (2) Number of Casualties
- (3) State, i.e. Needing immediate evacuation or

Needing evacuation when normal conditions resumed.

4. Transport of Casualties. The provision of transport is the responsibility of the Area Commander on the advice of the Medical Officer. Where possible the following should be utilised:-

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From Control Camp	Helicopter		
From Airfield	Ambulance	1 Austin Crash Ambulance	4 X 4
		1 Landrover Ambulance	4 X 4
From Main Camp 'X' Site Four Wells J.O.C.	Ambulance	2 Bedford Road Ambulances	4 X 2
From Port Camp	Longwheel base Landrover to Hospital L.C.M. to ship off shore.		

Only in exceptional circumstances should casualties be moved before the blast wave has passed. Should it become vital to do this the Medical Officer must advise the Area Commander who is to first obtain clearance from Commander, Army Task Group Tactical Headquarters (Tel: J.O.O. 650).

5. Operation 'PIED PIPER'. If the evacuation of a specific area or areas is ordered, medical personnel are to be evacuated also. If the Main Camp area is evacuated, the emergency medical centre, suitably equipped and already loaded on a vehicle, will be included in the Main Camp convoy. Should the Main Camp area itself not be required to be evacuated, but a medical emergency centre be needed elsewhere, the vehicle with this equipment on it is to be held in readiness and despatched on orders of the Senior Medical Officer.

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Annex 'F'

Monitoring Arrangements

1. In the event of an accident on take-off the following arrangements are made to monitor radiation levels; the necessary instruments in each case being provided by the Radiation Measurements (R.M.) Group A.W.R.E.
 - a. Airfield. [redacted] and [redacted] suitably equipped with instrument and transport.
 - b. Main Camp. As detailed by S.M.O. at Sick Quarters.
 - c. Main Camp Convoy. An officer detailed by O.C. 38 Corps Engr. Regt. R.E. This officer will move with the convoy and be equipped with R./T.
 - d. Port Area. A monitoring team suitably equipped, as detailed by R.N.O.
 - e. J.O.C. Area. An A.W.R.E. monitoring team suitably equipped, located in Building B.2.
 - f. Four Wells. An A.W.R.E. monitoring team suitably equipped.
 - g. Decca Sites. An instrument at each of the stations, namely 'Monitor' 'Master' and 'Slave'. These instruments will be operated by Decca Navigator Co. personnel.
 - h. "X" Site. An instrument operated by a person detailed by O.C. "X" Site.
 - i. "Y" Site. An instrument operated by [redacted]
 - k. Forward Control. Team and instrument provided and equipped by A.W.R.E.
2. Reporting. If an accident occurs reports are to be made as soon as any radiation above the normal level is monitored. Reports are to be made to the A.W.R.E. Monitor Officer [redacted] at the J.O.C. Tele. No. J.O.C. 647.
3. Communications. Monitoring teams should use island telephone system for reporting. The Monitor with the Main Camp Convoy will be in R./T. communication with Army Task Group Tactical Headquarters.
4. Issue of Equipment. Instruments will be issued by the R.M. Group A.W.R.E. Application for instruments is to be made to A.W.R.E. telephone No. J.O.C. 738 or 730. Monitoring teams are to be in possession of their equipment by 1200 hours Thursday 24th April, 1958.

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