

TOCSIN AND TOCSIN BANG PROCEDURESOBJECT

1. The object of the TOCSIN and TOCSIN BANG procedures is to provide confirmation of a nuclear attack on the United Kingdom:
 - a. for the initiation of the warning of an air attack hitherto undetected, and
 - b. for the information of CINC UKAIR and of AOC No 1 (B) Group, RAF.
2. To achieve its purpose, it is imperative that TOCSIN and TOCSIN BANG information be disseminated as quickly as possible. Furthermore, since the prime function of the UKWMO is to originate warnings to the public of the threat of air attack, and TOCSIN and TOCSIN BANG information could be vital for this purpose, the dissemination of this information must take priority over all other message traffic, other than messages actually initiating the Air Attack Warning (RED). Therefore after initial testing all Inter-Sector, Sector-Group and Inter-Group speech circuits will be dedicated to Sector Controllers' and Group Controllers' TX 14 during the period prior to attack. This will ensure that the circuits are available for the transmission of TOCSIN, TOCSIN BANG or Air Attack Warning (RED) messages and the passage of AWDREY credibility reports (see para 9) through these TX 14's. Any other information in the pre-attack period that needs to be passed between Sector and/or Group Controls is to be passed by data or speech circuits as available.

DEFINITIONS

3. a. A TOCSIN message is to be based on a single BPI reading of (02 kPa) or more, from Sector Control, Group Control or a Monitoring Post and is indicated by a TOCSIN call. The message will consist of the word "TOCSIN", followed by the Group name, the number of the Post, the word "POST" and the time of the BPI recording to the nearest minute eg "TOCSIN - CARLISLE - 11 POST - 1532".
- b. A TOCSIN BANG message will be based upon a response of the AWDREY equipment installed at certain Sector and Group Controls. The message will consist of the words "TOCSIN BANG", followed by the Group name and the time to the nearest second as recorded on the AWDREY equipment, eg "TOCSIN BANG - NORTH WALES - EIGHTEEN TWENTY FOUR TWELVE".

ROUTINGS

4. Each Sector and Group Control will pass TOCSIN and TOCSIN BANG messages to one addressee in the order of priority shown in the schedule of routings attached at Appendix 1. The passage of TOCSIN BANG messages should always be given precedence over TOCSIN messages. A message will be passed to the first addressee but if that Control is unobtainable, it should be passed to the second; if in turn that addressee cannot be contacted, the message should be transmitted to the third Control shown, and so on until all possibilities have been exhausted. The only exceptions to this general rule occur at Oxford and Coventry Group Controls, See Appendix 4. Care should be taken to ensure that a message received from another Control is not in fact retransmitted back to that same Control. Fully completed aides-memoire showing the routing priorities are issued to each Sector and Group

Control in the format shown in the sample attached at Appendix 2 and Annex C. Special arrangements relating to Oxford and Coventry Groups are detailed in Appendix 5.

5. The action to be taken to pass on TOCSIN and TOCSIN BANG information will normally be the responsibility of Sector Controllers and Group Controllers. Exceptionally, however, the Duty Officer could become involved in this action.

6. The same action regarding the onward transmission of TOCSIN and TOCSIN BANG messages will be taken irrespective of whether such messages are originated in the home Control or whether they are received from another Sector or Group Control.

7. All TOCSIN and TOCSIN BANG data available at a Sector or Group Control, irrespective of whether it is originated in the home Control or received from another Control, is to be immediately conveyed to the Sector Controller or Group Controller as appropriate. Once the data has been actioned in accordance with these procedure, Group Controllers should ensure that it is also passed to their Sector Controller, unless it would have already reached him through the routing scheme.

AWDREY CREDIBILITY

8. Credibility reports in respect of each AWDREY installation are to be initiated by the Chief Warning Officer at the commencement of operations and as a matter of routine every 6 hours (at 0001, 0600, 1200 and 1800 hours) or whenever the credibility state changes, and passing them to the Miscellaneous VDU Operator for transmission to the Sector Controls and the Group Controls within a range of 170 miles using the AC format. The AWDREY's are rated in accordance with the following confidence ratings:

"A" - No reason to doubt:

"B" - Suspect due to abnormal meteorological conditions (eg electrical disturbance, thunderstorm activity, etc)

"C" - Out of action due to equipment failure.

9. On receipt the AC messages are passed to the Sector/Group Controller for onward transmission to the Chief Warning Officer and Triangulation Supervisor.

IMPLEMENTATION

10. The Chief Warning Officer will maintain up to date information on the Home Group's credibility state before and during an attack, and will keep the Group Controller or (Sector Controller at a Sector Control) and Senior Duty Officer informed (see also paragraph 9 above).

11. The Senior Duty Officer is responsible for ensuring that all ROC personnel on duty in the Sector or Group Control are fully aware of the operational requirement relating to TOCSIN and TOCSIN BANG data, and that such data is handled by all ROC personnel concerned in accordance with the relevant operating procedures contained within this document.

ACTION AT A SECTOR CONTROL12. POST DISPLAY PLOTTERS

- a. On receipt of a TOCSIN call from any Post, the plotter concerned is to shout in a loud clear voice the word "TOCSIN" followed by the Group name, Post number, the word "POST" and the time of the BPI recording at the Post to the nearest minute, eg "TOCSIN - HORSHAM - ELEVEN POST - FIFTEEN THIRTY TWO".
- b. This procedure is to be repeated for all subsequent TOCSIN calls from Posts. (NOTE: Although not required for Air Attack Warning purposes once two TOCSIN calls each from different Posts have been passed, TOCSIN calls should continue to be shouted out to provide an indication to personnel within the Control of the extent and timing of the attack, unless instructed otherwise on the authority of the Sector Controller).

GROUP INFORMATION ORDERLY13. AWDREY INFORMATION

At Controls where AWDREY is fitted the Group Information Orderly is to continue to monitor the equipment as directed by the Group Information Supervisor. Immediately information is displayed the Group Information Orderly is to:

- a. Complete Form AWDREY DATA
- b. Alert the personnel within the Control by pressing the transmit key of the intercom with the Operations Table and speaking the words "TOCSIN BANG" followed by the Group name and the time of the AWDREY response, including the seconds. The Group Information Supervisor is to ensure that the call is repeated by the Display Supervisor as an acknowledgement of receipt.

EXAMPLE: "TOCSIN BANG - HORSHAM - TWENTY TWO THIRTY FIVE NINETEEN"

- c. Pass the completed Form AWDREY DATA to the Group Information VDU Operator for transmission to the Sectors and the Group Controls within 170 miles range.
- d. TOCSIN CALLS. On hearing a Post Display Plotter make a TOCSIN call, the Group Information Supervisor is to repeat the call to the Operations Table using the intercom, ensuring that the message is repeated by the Display Supervisor as an acknowledgement of receipt. This procedure is to be used for all subsequent TOCSIN calls from Posts. (NOTE: Although not required for air attack warning purposes once two TOCSIN calls from different Posts have been passed, TOCSIN calls should continue to be shouted out to provide an indication to personnel within the Control of the extent and timing of the attack, unless instructed otherwise on the authority of the Sector Controller).

DATA SUPERVISOR

14. Arrange for the distribution of the incoming AWDREY messages to the Sector Controller and Triangulation Supervisor at Sectors.

DISPLAY SUPERVISOR

15. The Display Supervisor, immediately on hearing a TOCSIN or TOCSIN BANG call from the Group Information Supervisor over the intercom is to write down the details, repeat the message to the Group Information Supervisor as an acknowledgement and pass the message to the Sector Controllers and Sector Group Controller.

THE SECTOR CONTROLLER

16. The Sector Controller is to take action as follows:

a. Pass all TOCSIN messages until two accredited TOCSIN BANG messages, each originated by different Sector or Group Controls, and the first two TOCSIN messages, each originated by different Posts, have been passed, whether received from within the home Sector or from other Sector or Group Controls. The messages will be passed to one addressee only in accordance with the routing schedule shown on the aide-memoire applicable to that Sector Control.

b. TOCSIN BANG

Pass immediately to UK RAOC or to the designated Sector or Group Control all TOCSIN BANG messages until two accredited TOCSIN BANG messages each originated by different Sector or Group Controls have been passed, whether received from within his own Sector Control or from another Sector or Group Control. The TOCSIN BANG message is to be passed by calling the distant terminal and saying "TOCSIN BANG", followed by the appropriate Group designation and the time to the nearest second, eg "TOCSIN BANG - NORTH WALES - EIGHTEEN TWENTY FOUR TWELVE". Having passed a TOCSIN BANG message, the Sector Controller is to record it in his Liaison Log, he is then to confirm that:

(1) The Sector Group Controller and Chief Warning Officer have been alerted.

(2) The Senior Duty Officer has been alerted to ensure that:

(a) The manning situation within the Control is reviewed.

(b) All communications are checked to assess the extent of the damage.

c. TOCSIN

On receipt of a TOCSIN message, whether received from within the home Sector Control or from another Sector or Group Control, the Sector Controller will pass it immediately to UK RAOC or to the designated Sector or Group Control. The TOCSIN message is to be passed by calling the distant terminal and saying "TOCSIN" followed by the appropriate Group designation, the number of the Post, the word "POST" and the time of the BPI recording, eg "TOCSIN - CARISLE - ELEVEN POST - FIFTEEN THIRTY TWO". Having passed a TOCSIN message, the Sector Controller is to record it in his Liaison Log. A TOCSIN message will be logged but not passed onwards if two TOCSIN messages each originated from a different Post, whether within the Home Sector Control or received from another Sector or Group Control, have already been passed. The Sector Controller is then to confirm that:

(1) The Sector Group Controller and Chief Warning Officer has been alerted.

(2) The Senior Duty Officer has been alerted to ensure:

(a) The manning situation within the Control is reviewed.

(b) All communications are checked to assess the extent of the damage.

ACTION AT A GROUP CONTROL17. POST DISPLAY PLOTTERS

a. On receipt of a TOCSIN call from any Post, the plotter concerned is to shout in a loud clear voice the word "TOCSIN", followed by the Group name, Post number, the word "POST" and the time of the BPI recording at the Post to the nearest minute, eg "TOCSIN - AYR - ELEVEN POST - FIFTEEN THIRTY TWO".

b. This procedure is to be repeated for all subsequent TOCSIN calls from Posts. (NOTE: Although not required for Air Attack Warning purposes once two TOCSIN calls each from different Posts have been passed, TOCSIN calls should continue to be shouted out to provide an indication to personnel within the Control of the extent and timing of the attack, unless instructed otherwise on the authority of the Group Controller.

18. GROUP INFORMATION ORDERLYa. AWDREY INFORMATION

At Controls where AWDREY is fitted the Group Information Orderly is to continue to monitor the equipment as directed by the Group Information Supervisor. Immediately information is displayed; the Group Information Orderly is to:

(1) Complete Form AWDREY.

(2) Alerting personnel within the Control by shouting the words "TOCSIN BANG" followed by the Group name and the time of the AWDREY response, including the seconds.

(3) Hand the completed Form AWDREY DATA to the Group Information VDU Operator for transmission.

GROUP CONTROLLER

19. The Group Controller is to take action as follows:

a. Pass all TOCSIN BANG messages until two accredited TOCSIN BANG messages, each originated by different Sector or Group Controls, and the first two TOCSIN messages, each originated by different Posts, have been passed, whether received from within the home Control or from other Sector or Group Controls. The message will be passed to one addressee only in accordance with the routing schedule shown on the aide-memoire applicable to that Group Control.

b. TOCSIN BANG

On hearing a TOCSIN BANG call from the Group Information Orderly, or on receipt of a TOCSIN BANG message from another Sector or Group Control, the Group Controller will pass it immediately to the designated Sector or Group Control until two accredited TOCSIN BANG messages each originated by different Sector or Group Controls have been passed. The TOCSIN BANG message is to be passed by calling the distant terminal and saying "TOCSIN BANG", followed by the appropriate Group designation and the time to the nearest second, eg TOCSIN BANG - NORTH WALES - EIGHTEEN, TWENTY FOUR, TWELVE". Having passed a TOCSIN BANG message, the Group Controller is to record it in his Liaison Log. The Group Controller is then to confirm that:

- (1) The Chief Warning Officer has been alerted.
- (2) The Senior Duty Officer has been alerted to ensure that:
 - (a) The manning situation within the Control is reviewed.
 - (b) All communications are checked to assess the extent of the damage.

c. TOCSIN

On hearing a TOCSIN call from the Post Display Plotters, or on receipt of a TOCSIN message from another Sector or Group Control, the Group Controller will pass it immediately to the designated Sector or Group Control. The TOCSIN message is to be passed by calling the distant terminal and saying "TOCSIN" followed by the appropriate Group Designation, the number of the Post, the word "POST", and the time of the BPI recording, eg TOCSIN - CARLISLE - ELEVEN POST - FIFTEEN THIRTY TWO". Having passed a TOCSIN message, the Group Controller is to record it in his Liaison Log. A TOCSIN message will be logged but not passed onwards if two TOCSIN messages each originated from a different Post, whether within the Home Group or received from another Sector or Group Control, having already been passed. The Group Controller is then to confirm that:

- (1) The Chief Warning Officer has been alerted
- (2) The Senior Duty Officer has been alerted to ensure:
 - (a) The manning situation within the Control is reviewed.
 - (b) All communications are checked to assess the extent of the damage.

EMERGENCY PROCEDURE AT SECTOR OR GROUP CONTROLS

DUTY OFFICER

20. If, for any reason, it is decided to implement these emergency procedures instead of the procedures above, the Duty Officer is to be prepared to act as follows:

TOCSIN BANG

a. The Duty Officer, on hearing a TOCSIN BANG call from the Group Information Orderly, is to ensure that a TOCSIN BANG message is passed at once in accordance with the routing schedule shown on the TOCSIN and TOCSIN BANG (EMERGENCY PROCEDURE) aide memoire applicable to that Sector or Group Control. Such a TOCSIN BANG message will be logged but not passed onwards if two accredited TOCSIN BANG messages originated by different Sector or Group Controls have already been passed. The message will be passed as follows:

- (1) The words TOCSIN BANG
- (2) The originating Group's name
- (3) The time of the TOCSIN BANG to the nearest second.

EXAMPLE: "TOCSIN BANG - DUNDEE - EIGHTEEN TWENTY FOUR TWELVE"

The Duty Officer is then to ensure that:

At Sector Controls the Sector Controller, Group Controller, Chief Warning Officer and Senior Duty Officer are alerted in that order, or at Group Controls the Group Controller, Chief Warning Officer and Senior Duty Officer are alerted in that order.

TOCSIN

b. A TOCSIN message will be logged but not passed onwards if two TOCSIN messages have already been passed. These two TOCSIN calls must come from different Posts, whether within the home Group, or adjacent Sector or Group Control. The message will be passed as follows:

- (1) The word TOCSIN.
- (2) The originating Group's name.
- (3) The number of the Post followed by the word POST.
- (4) The time of the BPI recording.

EXAMPLE: "TOCSIN - BEDFORD - ELEVEN POST - FIFTEEN THIRTY TWO".

The Duty Officer is then to ensure that:

At Sector Controls, the Sector Controller, Sector Group Controller, Chief Warning Officer and Senior Duty Officer are alerted in that order, or at Group Controls, the Group Controller, Chief Warning Officer and Senior Duty Officer are alerted in that order.

21. DISPLAY SUPERVISOR

At Sector Controls the Display Supervisor will act as at para 15, but at both Sector and Group Controls the Display Supervisor will pass the message to the PABX Operator.

22. COMMUNICATIONS CENTRE SUPERVISOR - (SECTOR AND GROUP CONTROLS)

The Communications Centre Supervisor will, in the period prior to the attack, ensure that any circuits known to be unserviceable are notified to the Senior Duty Officer in order that the aides memoire may be maintained at both the Sector Controller's and Duty Officer's positions. (Aides memoire are to be actioned by striking through the terminal(s) affected with red chinagraph).

If the circuit(s) subsequently become serviceable, the Communications Centre Supervisor is to notify the Senior Duty Officer without delay. On hearing any TOCSIN/TOCSIN BANG call check equipment and lines for failures and report results to the Senior Duty Officer.

23. CESSATION OF PROCEDURES

When requirements for the passage of TOCSIN and TOCSIN BANG messages have been met and the Attack Warning RED message has been issued, the Principal Warning Officer at UK RAOC, the Deputy Director at Western Sector Group, the Sector Controller or the Group Controller may issue instructions to the effect that no further messages of this nature need be passed. The procedures are to terminate at that stage but all personnel involved must be prepared to re-implement the procedures set out above if the attack should follow such a pattern as to require their re-introduction.

24. APPENDICES

Appendix 1 - Routings in Priority Order for Sector and Group Controls.

Appendix 2 - Aide Memoire (Sector/Group Controller).

Appendix 3 - Aide Memoire (Duty Officer).

Appendix 4 - AWDREY Credibility Check List.

Appendix 5 - Special Procedure for Oxford and Coventry Controls.

PASSAGE OF TOCSIN AND TOCSIN BANG DATA

ROUTINGS IN PRIORITY ORDER FOR SECTOR AND GROUP CONTROLS

SECTOR	GROUP	PRIORITY											
		1	2	3	4	5	6	7	8	9	10	11	12
MET	HOR	UK RAOC	WES	MID	SOU	CAL	OXF	WIN	BED	COL	MAI		
	MAI	MET	BED	COL									
	OXF	UK RAOC	COV	MET	SOU	SHR	BED	WIN	YEO				
	COL	MET	BED	NOR	MAI								
	WIN	OXF	MET	SOU	BED	YEO							
MID	LIN	UK RAOC	WES	SOU	MET	CAL	COV	BED	YOR	NOR			
	NOR	MID	BED	COL									
	BED	COV	OXF	MID	MET	NOR	COL	MAI					
	COV	UK RAOC	OXF	WES	MID	SOU	SHR	BED	YOR				
	YOR	WES	MID	COV	SHR	DUR	CAR						
CAL	DUN	UK RAOC	WES	MID	MET	SOU	EDI	AYR	INV	ABE			
	EDI	CAL	AYR	CAR	DUR								
	AYR	CAL	EDI	CAR	BEL	INV							
	ABE	CAL	INV										
	INV	CAL	AYR	ABE									
SOU	BRI	UK RAOC	WES	MID	MET	CAL	COV	OXF	SHR	NWA	WIN	YEO	SWA/EXE
	YEO	OXF	SOU	WIN	EXE								
	EXE	SOU	YEO	SWA									
	SWA	SOU	SHR	NWA	EXE								
	SHR	COV	OXF	WES	SOU	NWA	SWA	YOR					
WES	PRE	UK RAOC	MID	SOU	MET	CAL	COV	SHR	YOR	NWA	DUR	CAR	BEL
	NWA	WES	SOU	SHR	SWA								
	CAR	WES	YOR	DUR	BEL	AYR	EDI						
	DUR	WES	YOR	EDI	CAR								
	BEL	WES	CAR	AYR									

AIDE MEMOIRE (SECTOR/GROUP CONTROLLER)

TOCSIN AND TOCSIN BANG

The following messages are to be passed to ONE of the designated terminals below in the listed order of priority:

The FIRST TWO TOCSIN messages each of which must originate from a different Post, and all TOCSIN BANG messages until two accredited TOCSIN BANG messages, each originated by different Sector or Group Controls, have been passed.

PRIORITY	TERMINAL
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

AIDE MEMOIRE (DUTY OFFICER)

TOCSIN AND TOCSIN BANG (EMERGENCY PROCEDURE)

When informed to implement these Emergency Procedures the following messages are to be passed to ONE of the designated terminals below in the listed order of priority until you are told there is no further requirement to do so:

All TOCSIN messages TOCSIN BANG messages whether originated in the Home Group or received from another Group or Sector Control

PRIORITY	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

AWDREY CREDIBILITY REPORTS

CREDIBILITY REPORTS IN RESPECT OF EACH AWDREY INSTALLATION ARE TO BE PASSED EVERY SIX HOURS (AT 0001, 0600, 1200 AND 1800 HOURS) AND WHENEVER THE CREDIBILITY STATE CHANGES, IN ACCORDANCE WITH THE FOLLOWING CONFIDENCE RATINGS:

- 'A' - NO REASON TO DOUBT:
- 'B' - SUSPECT DUE TO ABNORMAL METEOROLOGICAL CONDITIONS:
- 'C' - OUT OF ACTION DUE TO EQUIPMENT FAILURE.

SECTOR	GROUP	RATING	TIME	REMARKS
CAL	DUN			
	INV			
	OBA			
WES	CAR			
	BEL			
	NWA			
MID	YOR			
	COV			
SOU	SWA			
	EXE			
MET	HOR			
	OXF			
	COL			

TOCSIN AND TOCSIN BANG PROCEDURE

SPECIAL PROCEDURE TO BE ADOPTED ONLY AT OXFORD AND COVENTRY GROUP CONTROLS

1. If for any reason communications between both Oxford and Coventry Group Controls and UK RAOC are disrupted before the requirement for the passage of TOCSIN and TOCSIN BANG data has been fulfilled, valuable time could be lost at Oxford and Coventry Controls if the routings given at Appendix 1 are followed.
2. In the pre attack period, the Group Controllers at Oxford and Coventry are to maintain a close liaison to ensure that each is aware of the state of the other's communications link to UK RAOC.
3. If both Oxford and Coventry lose communications with UK RAOC, priority number 2 in Appendix 1 becomes redundant for both Groups and is to be ignored, Thus, under these special circumstances only, each Group is to immediately attempt to route TOCSIN and TOCSIN BANG data according to priority number 3, ie:
 - a. OXF to MET
 - b. COV to WES.