

DUTIES AND RESPONSIBILITIES

SECTOR CONTROLLER

1. CODE WD1  
Incoming  
In consultation with the Meteorological Officer, the Sector Controller will decide if WD1 information from the Continent should be disseminated to other Sectors and Home Groups.
  
2. CODE WD2 and WD3  
Incoming  
The Sector Controller will disseminate the information contained in WD2 and WD3 reports to the Deputy Directors at UK RAOC and Western Sector Control and to all other Sector Controllers either by speech or by a NON-ROUTINE message as the situation demands.  
  
Outgoing  
The Sector Controller is responsible for informing the Liaison Officer of the necessary details of outgoing WD2 and WD3 messages.
  
3. CODE WD4 (CHEMICAL AND BIOLOGICAL)  
Until detailed procedures have been promulgated, the Sector Controller will decide the necessary action for both incoming and outgoing information.
  
4. CODE WD5  
Incoming  
The Sector Controller will decide what action is to be taken.  
  
Outgoing  
The Sector Controller will be responsible for informing the Liaison Officer on the need and text for outgoing WD5 messages.

DUTIES AND RESPONSIBILITIES

LIAISON OFFICER

1. CODE WD1  
Incoming  
On receipt of this type of report the copy form is to be retained by the Liaison Officer for reference. The original is to be passed to the Meteorological Officer.  
  
Outgoing  
The Liaison Officer will receive a completed WD1 message from the Meteorological Officer, for transmission to the adjacent Continental Control(s).
2. CODE WD2 and WD3  
Incoming  
On receipt of this type of report the copy form is to be retained by the Liaison Officer for reference. The original is to be passed to the Sector Controller.  
  
Outgoing  
Having been informed of the relevant details by the Sector Controller, the Liaison Officer is to complete the Form Continental Liaison in duplicate and send the message. The Liaison Officer is to retain the copy for reference and pass the original to the Sector Controller.
3. CODE WD4 (NUCLEAR)  
Incoming  
On receipt of this type of report from Continental Controls, the Liaison Officer will pass the original of the form to the Continental Liaison Orderly and retain the copy for reference.  
  
Outgoing  
Having been informed of the relevant details by the Display E Officer, the Liaison Officer is to complete the Form Continental Liaison in duplicate, and send the message. The Liaison Officer is to retain the copy for reference and pass the original to the Display E Officer.
4. CODE WD4 (CHEMICAL AND BIOLOGICAL)  
Incoming  
On receipt of this type of report from a Continental Control, the Liaison Officer will pass the original of the form to the Sector Controller and retain the copy for reference.
5. CODE WD5  
Incoming  
On receipt of this type of report, the copy form is to be retained by the Liaison Officer for reference. The original is to be passed to the Continental Liaison Orderly.

Outgoing

The Liaison Officer will be directed on the need and text for this type of report by the Sector Controller. The Liaison Officer will complete the Form Continental Liaison in duplicate, and send the message. The Liaison Officer will retain the copy for reference, and pass the original to the Sector Controller.

6. CODE WD6

Incoming

On receipt of this type of report from Continental Controls, the Liaison Officer will retain the copy and pass the original to the Display E Officer.

Outgoing

Having been informed of the necessary details by the Display E Officer, the Liaison Officer is to complete the Form Continental Liaison in duplicate and send the message. The Liaison Officer is to retain the copy for reference and pass the original to the Display E Officer.

7. CODE WD7

Incoming

On receipt of this type of report from Continental Controls, the Liaison Officer will retain the copy for reference, and pass the original to the Display E Officer.

Outgoing

Having been informed of the necessary details by the Display E Officer, the Liaison Officer is to complete the Form Continental Liaison in duplicate, and send the message. The Liaison Officer is to retain the copy for reference, and pass the original to the Display E Officer.

8. CODE WD8

Requests for this type of information for transmission to Continental Controls will be passed on Form Continental Liaison in duplicate to the Liaison Officer by the Display E Officer. On receipt of the reply the Liaison Officer will complete the Form Continental Liaison in duplicate. The message will be checked by referral to the original request message. The Liaison Officer will retain the copy of the reply, and pass the original of the reply to Display E Officer. In receipt of this type of request from Continental Controls, the Liaison Officer will complete Form Continental Liaison in duplicate. The copy will be retained for reference and the original passed to the Display E Officer for action. When the Display E Officer has completed the reply to the request in duplicate the original of the reply will be handed to the Liaison Officer for transmission the copy retained for reference. When the reply to the request has been sent the Liaison Officer will retain the original for reference.

9. CODE WD9

The Liaison Officer should deal with requests and replies for this type of report, in the same way as for WD8 reports.

10. Note: All messages received or sent will be entered on the Form Continental Liaison which should be completed in duplicate.

DUTIES AND RESPONSIBILITIES

DISPLAY E OFFICER

1. CODE WD4 (NUCLEAR)

Incoming

The Display E Officer will receive a copy of Form Continental Liaison containing WD4 information from the Continental Liaison Orderly. The Display E Officer will assess whether or not the burst does in fact pose a threat to the UK. If the burst does pose a threat or, irrespective of wind direction or being a ground or air burst, lies within 50 km of the Continental Coastline and that the information needs to be disseminated within the UK, the form will be checked to ensure that it is correct and that it contains both UTM and GEOREF grid references. The Display E Officer will then instruct the Continental Liaison Orderly to prepare and issue a BX message. The Display E Officer must ensure that the Display A Officer is aware of all threats to the UK.

Outgoing

The Display E Officer is responsible for informing the Liaison Officer of details of bursts in the UK which pose a threat to Continental countries.

2. CODE WD6

Incoming

The Display E Officer will receive this type of report from the Liaison Officer. The Display E Officer will check whether the prediction is in fact likely to pose a threat to the UK, and if so, is to assess the likely position and time of arrival on the UK coastline and issue a form continental threat (TX) for dissemination within the UK. The Display E Officer is to ensure that the Display A Officer at Sector and other affected Sectors and Groups is aware of all relevant threats to the UK.

Outgoing

The Display E Officer is responsible for informing the Liaison Officer of the necessary details for sending CODE WD6 information for UK bursts to the adjacent Continental Controls.

3. CODE WD7

Incoming

The Display E Officer will receive a WD7 report from the Liaison Officer. The Display E Officer will compare the WD7 report with any appropriate WD6 and any TX issued therefrom. If the new threat is significantly different or if no WD6 has previously been received the Display E Officer is to instruct the Continental Liaison Orderly to issue either an amendment to the original, or a new TX message as appropriate. The Display E Officer is to ensure that the Display A Officer at Sector and other affected Sectors or Groups is aware of all relevant threats to the UK.

Outgoing

The Display E Officer is responsible for informing the Liaison Officer of the necessary details required for issuing WD7 reports for UK bursts to the continent. The Display E Officer should ensure where possible that each WD6 report originated is followed up by a WD7 report or, if the situation no longer presents a threat, by a cancellation.

4. CODE WD8  
Incoming  
On receipt of this type of request the Liaison Officer will complete the Form Continental Liaison in duplicate retaining the copy for reference and pass the original to the Display E Officer. When the Display E Officer has completed the reply in duplicate the copy will be retained for reference and the original passed to the Liaison Officer for transmission.  
  
Outgoing  
The Display E Officer will pass to the Liaison Officer requests for this type of information relating to continental locations. The Display E Officer should complete the request on the Form Continental Liaison in duplicate and pass the original to the Liaison Officer for transmission. The Liaison Officer will transmit the message and retain the original for reference.
5. CODE WD9  
Fallout intensity contours which are of interest to other countries will be exchanged between adjoining countries on request. The Display E Officer will deal with this type of report in the same way as for WD8 reports.

DUTIES AND RESPONSIBILITIES

CONTINENTAL LIAISON ORDERLY

WD2

1. The Continental Liaison Orderly may be requested by the Liaison Officer to complete WD2 messages in accordance with Annex AZ para 6 and Annex AZ Appendix 6.

WD4

2. The details of Continental Nuclear Bursts are listed on the Form Continental Liaison as described in Annex AZ para 8.

3. On receipt of Form Continental Liaison containing incoming WD4 (Nuclear) information the Continental Liaison Orderly is to:

a. Convert all times on the form to local time when British Summer Time (BST) is in force. This means that one hour is to be added to the Zulu times shown on the form and this is to be amended by crossing through the Zulu time and writing the local time above.

b. (1) Within the 50 Kilometre Strip

Plot ALL Bursts on Display E regardless of wind direction. Use a small red or green symbol as appropriate, place it on the display with the tip of the symbol on the UTM position. Write the bomb designation in blue chinagraph under the tip of the symbol.

(2) Outside the 50 Kilometre Strip

Plot only Ground Burst details on Display E by selecting a small red burst symbol and placing it on the display as in (b(1)) above.

Air Bursts are not normally plotted on Display 'E' except at the request of the Display 'E' Officer. Add the GEOREF to the form at this stage, taken from Display E.

NB When plotting all incoming Bomb Bursts on Display E, care must be taken to ensure that Strike Serial Numbers are correct by reference to either Display A or Display E3. If the information is incorrect, it MUST be corrected AT THIS POINT, by crossing through the incorrect Serial Number and writing the correct Serial Number next to it on the appropriate Form Continental Liaison.

EXAMPLES:

France	=	or	FR 76A
			FR 50B
Belgium	=		BE 4A
NOT			FR 76

c. Plot the burst details on the right hand side of the Nuclear Burst Tote using black chinagraph and denote the type of burst by placing a large red symbol (Ground Burst) or large green symbol (Air Burst) as appropriate, in the column headed "AB or GB". Place a blue tick to the right of the burst symbol to indicate to the Display 'E' Plotter that no further action is required.

(If the Strike Serial Number has been corrected, ensure that the corrected numbers are shown on the Continental Nuclear Burst Tote).

4. On the confirmation of the Display 'E' Officer that the burst may pose a threat to the United Kingdom the Continental Liaison Orderly is to prepare a BX Form for transmission (See Appendix 8b.)

5. Details of the BX are to be entered on the Form Continental Nuclear Burst by the Continental Liaison Orderly who will complete the boxes on the form as follows:

a. Enter the Sector Identity against the BX code (twice).

b. Enter ORG (original), AMD (amendment) or CAN (cancellation) as appropriate under CAT.

c. Enter A (AB) or G (GB) as appropriate under T.

d. Enter the full UTM details from the Form Continental Liaison under UTM.

e. Enter the GEOREF position of the burst under GEOREF.

f. Enter the Strike Serial Number from the Form Continental Liaison under SERIAL.

g. Enter the estimated yield from Form Continental Liaison under POWER. This must be in megatons and it may be necessary to convert kilotons to magatons, eg:  $1000K = 1M$   
 $1500K = 1.5M$  etc

Denote Kilotons or Megatons by using K or M after the yield figures.

h. Enter the height shown on Form Continental Liaison (Ground Burst - Nil height as 000; Air Burst - Height Not known as N/K NOT 000) under HEIGHT.

j. Enter the date/time shown on line D of Form Continental Liaison. Under DATE/TIME, this must be local time. Therefore where the times on the Form have been converted it is the converted time that is to be shown.

k. Write on the bottom of the Form Continental Liaison the action taken, and on whose instructions and what time the form BX was raised.

l. File Form Continental Liaison.

m. Take completed form BX to the Assistant Display Liaison Supervisor or Display Supervisor for checking.

n. Place completed form BX in Operations Room Orderly's message tray.

6. If the Display 'E' Officer decides the burst poses no threat to the United Kingdom the Continental Liaison Orderly should action the Form Continental Liaison as at 10k and 10.1 above and any change of action should be noted and timed accordingly.

7. The Continental Liaison Orderly must ensure that the Form Continental Liaison is entered on the Continental Nuclear Burst Tote (right hand side) regardless of whether the Burst is a threat to the UK. If no BX has been prepared, place a small cross in black in the right hand margin against the appropriate line on the Continental Nuclear Burst Tote.

#### WD4 Messages - Outgoing

8. If requested to do so by the Display E Officer the Continental Liaison Orderly is to complete a Form Continental Liaison WD4 in duplicate for each United Kingdom Ground Burst indicated as being a threat to the country's concerned.

9. The Form Continental Liaison is to be completed in accordance with Annex AZ para 8d bearing in mind the following:

- a. All times will be in GMT.
- b. All power will be in Kilotons.
- c. National Grid replaces UTM at Line F.
- d. Strike Serial Number is made up of the United Kingdom Group Number together with the letter which designates which bomb in the Group it is. Group Numbers can be found in Appendix 1.

Eg: MAI A = UK01A  
HOR E = UK02E etc

10. When completed the Forms Continental Liaison are to be handed to the Display E Officer for checking before being passed to the appropriate Liaison Officer. The Liaison Officer may return one copy of the Form Continental Liaison to the Display E Officer via the Continental Liaison Orderly.

#### WD5 Messages - Incoming

11. The Continental Liaison Officer will pass Forms Continental Liaison containing WD5 information to the Continental Liaison Orderly who is to:

- a. Convert all times on the Form to local time when BST is in force.
- b. Pass the Form to the Sector Controller.

#### WD6 & WD7 - Incoming

12. The Continental Liaison Orderly is responsible for preparing and issuing a Form Continental Threat Data (TX) for dissemination within the UK, on instructions from the Display E Officer.

13. The Display E Officer will provide details of the Front positions by defining the extremities of the Front by National Grid References Post positions in the same way as for bursts within the UK.



14. The Orderly is to complete the Form Threat Message, in duplicate as follows:
  - a. Enter the Sector Code in the boxes beside the TX letters.
  - b. Enter the Code "6" in the WD box.
  - c. Enter the Burst designation in the BURST boxes
  - d. Enter the Post numbers and Estimate Time of arrival of Fallout indicated by the Display E Officer in the Front Data boxes.

15. An example of a completed TX message is at Appendix 11b.

16. Annotate the Form Continental Liaison that a TX has been raised and the Date/Time and file.

17. Take the TX message to the Assistant Display and Liaison Supervisor or Display Supervisor for checking.

18. Place one of the checked TX messages in the.....

The Continental Liaison Orderly is to use the second copy to annotate the Threat Service Check List, after which it is filed.



CONTROL FORM - NON-ROUTINE

**NR**

PROSIGN	AD/CODE	AD/CODE	AD/CODE	AD/CODE	AD/CODE	AD/CODE	AD/CODE	AD/CODE	AD/CODE	LOCAL
RR	M	A	M	D	4					
NR	L	I	N	D	T					

**PRECEDENCE ACTION-ROUTINE**

FROM	M	I	D	W	M					
TO	ALL	UK	WMO	SECTORS	GROUPS	AND	NRC'S			

**FOR INFO OF**

**BT**

**CLASSIFICATION-UNCLASSIFIED**

TO:	CON	CON	CON	CON	CON	CON	CON	CON	CON	CON
FROM:	CON	CON	CON	CON	CON	CON	CON	CON	CON	CON
WD1	1)	CO	PE	NH	AG	EN	HAG	EN	AG	EN
	2)	2	1	0	6	0	0	0	0	0
	3)	0	9	0	0	3	0	0	0	0
	4)	0	9	0	0	2	7	0	0	0
	5)	1	0	0	0	2	3	0	0	0

**BT**

1. The originator is to complete boxes by entering:
  - a Under PROSIGN - the 2 letter code as appropriate to the precedence of the information.
  - b Under AD/CODE - the 5-7 character address code to which the information is to be sent.
  - c Beside NR - the 3 letter Group identity.
  - d Beside Group identity - the 6 figure Date/Time that information was originated.
  - e Enter only location addresses in FROM-TO-FOR INFO OF boxes in clear terms eg. FROM EXEWM; TO EXEN14
  - f Persons to whom message addressed and originator to be below classification within text.
  - g Within text up to 64 characters per line in plain language.
2. On completion the form is to be passed to appropriate Supervisor.

FORM CONTINENTAL LIAISON			
Date / Time	From	To .....GE.....	Code
211100Z	UK		WD1
Number/ Letter	Message		
1	UK5		
2	210600Z		
3	090030		
4	090027		
5	095025		
6	100023		
1	UK6		
2	210600Z		
3	080040		
4	085040		
5	085035		
6	085045		
Date/Time of Transmission/Receipt 211105Z.....			
.....			
.....			

FORM CONTINENTAL LIAISON			
Date / Time	From	To ..UK.....	Code
201305Z	BE		WD2
Number/ Letter	Message		
1	FIRST AIR ATTACK WARNING ISSUED BY NETHERLANDS AT 201300Z		
2	N/A		
3	N/A		
	<u>OR</u>		
1	N/A		
2	CANCEL AIR ATTACK WARNING BY NETHERLANDS AT 201300 Z		
3	N/A		
Date/Time of Transmission/Receipt 201307Z			
.....			
.....			



FORM CONTINENTAL LIAISON			
Date / Time	From	To ..BE.....	Code
241700Z	UK		WD2
Number/ Letter	Message		
1	FIRST AIR ATTACK WARNING ISSUED		
	BY UK AT 241656Z		
2	N/A		
3	N/A		
	<i>OR</i>		
1	N/A		
2	CANCEL FIRST AIR ATTACK		
	WARNING ISSUED BY UK AT		
	241656Z		
3	N/A		
Date/Time of Transmission/Receipt 241702Z			
.....			
.....			







FORM CONTINENTAL LIAISON			
Date / Time	From	To .....UK.....	Code
201410Z	GE	.....	WD3
Number/ Letter	Message		
1	NUCLEAR		
2	201405Z		
3	EINDOVEN 31UFT670025 UTM		
4	N/A		
	<i>"OR"</i>		
1	CHEMICAL		
2	200945Z		
3	32ULC550930 UTM		
4	ROCKET		
Date/Time of Transmission/Receipt 201412Z.....			
.....			
.....			





FORM CONTINENTAL LIAISON			
Date / Time	From	To ...UK.....	Code
201425Z	NE		WD4.(NUCLEAR)
Number/ Letter	Message		
A	NE01A		
B	201405Z		
F	EINDOVEN 31UFT656020 UTM		
H	SURFACE		
N	200		
Date/Time of Transmission/Receipt 201426Z			
.....			
.....			

**CONTROL FORM – BURST DATA – CONTINENTAL**

**BX**

<b>PROSIGN</b>		<b>AD / CODE</b>	
PP		BX MID	
: BX MID :	UTM		
CAT T	: 31 UFT 6 5 6 0 2 0 :	GEORF	: FG 2 3 2 6 :
: ORG :	: G :	SERIAL	: NE 0 1 A :
		POWER	: 2 0 0 :
		HGT	: 0 0 0 0 :
		D / T	: 2 0 1 4 0 5 :

1. The originator is to complete all boxes by entering:

- a. After BX – the 3 letter Sector identity (twice).
- b. Under CAT – the 3 letter code ORG, AMD or CAN.
- c. Under T – the 1 letter code A (for Air Burst) or G (for Ground Burst).
- d. Under UTM – the 11 letter/figure Continental Map Reference or Irish Grid Reference.
- e. Under SERIAL – the 6 letter/figure Continental Burst Designation.
- f. Under POWER – the Burst Yield in Kiloton or Megaton.
- g. Under HGT – the Burst Height (NIL Height (surface) to be shown as 0000).
- h. Under D/T – the Date Time of Burst adjacent to local time.

2. On completion the form is to be passed to the appropriate Supervisor.











**TX** CONTROL FORM - CONTINENTAL THREAT DATA

<b>PROSIGN</b>	<b>AD/CODE</b>		
<b>PP</b>	<b>TXMET</b>		
<b>CAT</b>	<b>WD</b>	<b>BURST</b>	<b>FRONT</b>
: <b>ORG</b> :	: <b>6</b> :	: <b>BE02A</b> :	: <b>ETA TM4469 1130</b> :
			: <b>ETA TM5495 1145</b> :

1. The originator is to complete the boxes by entering:
  - a. After TX - the 3 letter Sector Identity (twice).
  - b. Under CAT - the 3 letter code ORG, AMD or CAN denoting original, amended or cancelled data.
  - c. Under WD - the 1 figure code denoting the WD number.
  - d. Under BURST - the 6 character Burst Designation.
  - e. Under FRONT - up to 36 characters per line on 2 lines indicating the Threat Front Data
  
2. On completion, the form is to be passed to the appropriate Supervisor.





# TX CONTROL FORM - CONTINENTAL THREAT DATA

<b>PROSIGN</b>	<b>AD/CODE</b>		
<b>PP</b>	<b>TXMET</b>		
<b>CAT</b>	<b>WD</b>	<b>BURST</b>	<b>FRONT</b>
:TXMET:	:7:	:BE02A:	:ETA TM4469 1130
:ORG:			:ETA TM5495 1145
			:

1. The originator is to complete the boxes by entering:
  - a. After TX - the 3 letter Sector Identity (twice).
  - b. Under CAT - the 3 letter code ORG, AMD or CAN denoting original, amended or cancelled data.
  - c. Under WD - the 1 figure code denoting the WD number.
  - d. Under BURST - the 6 character Burst Designation.
  - e. Under FRONT - up to 36 characters per line on 2 lines indicating the Threat Front Data
  
2. On completion, the form is to be passed to the appropriate Supervisor.







FORM CONTINENTAL LIAISON			
Date / Time	From	To ...UK.....	Code
201530Z	BE		WD8
Number/ Letter	Message		
Q	32 ULB 123987 UTM		
R	35cGy/hr DECREASING DECAY NORMAL		
S	201515Z		
Q	32ULB 129965 UTM		
R	60cGy/hr PEAK		
S	201500Z		
Q	32ULB 146808 UTM		
R	27 cGy/hr INCREASING		
	<i>"OR"</i>		
H	GAS		
Q	32U LD 325910 UTM AIR		
Date/Time of Transmission/Receipt 201535Z.....			
.....			
.....			

FORM CONTINENTAL LIAISON			
Date / Time	From	To ... NE .....	Code
201400Z	UK	..... .....	WD9(NUCLEAR)
Number/ Letter	Message		
	REQUEST WD9 (NUCLEAR) INFORMATION		
	FOR NE 01 A		
	<i>"OR"</i>		
	REQUEST WD9 (CHEMICAL) INFORMATION		
	FOR NE 04 A (GAS)		
Date/Time of Transmission/Receipt 201450Z			
.....			
.....			

FORM CONTINENTAL LIAISON			
Date / Time	From	To ...UK.....	Code
201530Z	NE		WD9(NUCLEAR)
Number/ Letter	Message		
A	NE 01A		
T	201505Z		
V	FV931033 UTM		
	LE 023042 UTM		
	LE 105047 UTM		
	LE 063027 UTM		
	FV947015 UTM		
W	FV900041 UTM		
	LE156090 UTM		
	LE 297098 UTM		
	LE 357058 UTM		
	LE 140026 UTM		
	PV 950005 UTM		
Date/Time of Transmission/Receipt 201535 Z			
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.....			

