

C-3241-S40

DEPARTMENT OF NATIONAL DEFENCE

TRAINING - NUCLEAR WARFARE

STAFF OFFICERS

FOR CROSS REFERENCES SEE INSIDE COVER

ROUTING				P.A. & B.F. ENTRIES				REGISTRY ONLY	
REFERRED	REMARKS	DATE OF PASS	INITIALS	DATE OF P.A.	INITIALS	DATE OF B.F.	CANCEL B.F.	DATE RECEIVED	INSPECTED
DSOP	PER REQUEST CR SEP 12 1961		LY	13/61	A			SEP 14 1961	
DSOP	PER REQUEST CR FEB 19 1963			6-3-63				MAR - 6 1963	
DNDD	in Papers	28/1/64							A31
Dir of Trng/Comman Trng	3234	30/64						NOV 17 1964	
DSOP	WITH PAPER NOV 30 1964								
DTOS	Minute 2 top folio	30 Nov 64							
DSEO	Minute 3 please	3 Dec 64							
SEO2	mi 4	4 Dec							
SEO2-4	(5)	7/11/64						DEC 15 1964	

"B. F." - DO NOT HOLD THIS FILE WHEN

LAPSES IN ACTION MAY EXCEED 48 WORKING HOURS



000003

3241-840(DSEO)

Canadian Forces Headquarters  
Ottawa, Ont.  
11 Dec 64

Commandant  
JNBCS  
Camp Borden Ont

EQUIPMENT - RETENTION OF PAC 18

Reference: a. HQC 3241-840 (DTO)

b. JNBCS/6001 - Radiacmeters 3310-84/J9  
dated 25 Nov 64

1. Further to reference a. Scale NBC 12 of RCAF CAP 608 has now been amended to reflect the required holdings. Copies of the amendment will be issued in the near future.

2. In view of para 1 above, the instruments at present held by JNBCS, and detailed in reference b, should be retained as the scale entitlement under the amended NBC 12 Scale.

ORIGINAL SIGNED BY  
F. A. WINGERT W/C

(F.A. Keane)  
Colonel  
for Chief of the Defence Staff

S/L AA Jaroe/ds  
SEO2-4 2-5349

cc: Orig SEO2/Sec DGOps/Circ DSEO/Circ File ✓



CANADA

# DEPARTMENT OF NATIONAL DEFENCE

ARMY

In reply to HQC 3241-S40(DTO)

JOINT NUCLEAR BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont. 25 Nov 64

Canadian Forces Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

Referred to

NOV 30 1964

Attention: DSEO

File No

Chgd to

## PAC-1S Instruments

1. Reference is made to para 2 of HQC 3241-S40(DTO) letter in which it is stated that the JNBCS requirement for five PAC-1S instruments, five sets of calibration sources, one alpha probe repair kit, one spare battery and one battery charger will be met and that the PAC-1S instruments will be available early in the new year.

JNBCS has retained, pending further direction, the instruments originally forwarded on loan for the NBC 15 courses. In order to ensure that a sufficient number of instruments are available for the NBC 3, NBC 7, NBC 13 and special Medical Officers courses being conducted in January, through June of 1965 it is requested that authority be granted for JNBCS to permanently retain equipments to meet the requirements outlined at para 1 above.

(AH Blake)

Wing-Commander  
Commandant

② JHC  
DFO  
30 Nov 64

③ DSEO  
Attn: F/L Eggleston  
Room 4133 C  
Returned as requested  
per telcom (F/L Eggleston - clark)  
JHC  
DTOS  
3 Dec/64 23450

④ DFO 2  
Shahine there  
came from  
Depot at  
If so there is  
no problem in  
their retention. In  
addition 15 should be available  
from EOD class 000005  
4 Dec 64 JHC



Canadian Forces Headquarters  
, Ont.  
13 Nov 64

Commandant

Joint Nuclear, Biological and  
Chemical Warfare School  
CAMP BORDEN, Ontario.

ALPHA MONITORING ON JNECS COURSES

Reference: a. JNECS 3310-84/J9 of 21 Oct 64

1. The Service specialist officers in NBC defence at this headquarters agree with your proposal to include some aspects of Nuclear Accident Response in the syllabi for Officer and NCO Advanced Courses, and the Long NBC Staff Officers Course. However, although a detailed knowledge of this subject may be required for the Long course, it is considered that a general knowledge should suffice for the Advanced Courses. The category of personnel who attend the latter courses can be provided with detailed knowledge of the subject by conducting a special NBC 15 course should the need arise.

2. In respect to the equipment requested in the reference, DSEO advises that Scale NBC 12 to RCAF CAP 608 will be amended to include your requirement. The PAC 18 instruments should be available early in the new year. DSEO has requested that procurement of Stapex air samplers be brought forward from the 65/66 fiscal year to the 64/65 year. A decision, is expected within two weeks. Should the decision be favourable, procurement by Jan 65 can be expected.

3. Additionally, DSEO will attempt to obtain a suitable material for a field of alpha contamination. In this regard, the Surgeon General is unlikely to approve the use for this purpose of the thorium sludge mentioned in the reference, since a sludge is composed of particles suspended in a liquid. These particles could be suspended in air through evaporation. In any event, before the Surgeon General could decide on the suitability of this material details of its physical properties, its chemical form, and the size of particles would be required. A member of the Surgeon General's staff, Maj Rankin, will be visiting your School in the near future to discuss this matter with you.

Copy for: W/C F.A. Wingert (DSEO)  
LT COL H.E. Staples (DG (ND))  
LCDR E.S. Parker (DSEO)

cc: File  
Orig  
Circ

*GS Clark*  
GS Clark Cdr /er  
2-3450

*WFD.*  
(WF Davy)  
Group Captain  
for Chief of Defence Staff

C3241-S40(DSEO)

MEMORANDUM

30 Oct 64

Director of Training(Officers)/Common Training


JOINT NBC SCHOOL, CAMP BORDEN

Reference: a. JNBCS 3310-84/J9 21 Oct 64

1. The ref is a letter from the JNBCS which puts forward certain proposals concerning the content of its courses and which requests certain equipments. While the proposals are of concern to the three Services, the equipment matter can be handled by the RCAF.

2. Since the proposals stated in para 1 of the ref have tri-Service implications, the attached draft reply has been co-ordinated with Navy and Army specialists. However, it is considered that you, as replacement for the Chairman of the NBCTSC, should sign the reply. It is also believed that the ref should have been forwarded for your attention rather than for the attention of DNDO (which incidentally, is now the SEO2 Section of the integrated Directorate of Survival and Emergency Operations along with A/DNSR(NBCD)). The draft reply has accordingly been prepared for release by your Directorate. This Section would appreciate a copy of the final letter.

3. This may be considered a propitious time to acquaint the JNBCS and the former members of the NBCTSC of the change in organization and channels of communication.

  
(F.A. Wingert)  
Wing Commander  
SEO2  
2-8228

Attach.1

D  
R  
A  
F  
T

HQ C3241-S40( )

Commandant  
JNBC School

ALPHA MONITORING ON JNBCS COURSES

Reference: a. JNBCS 3310-84/J9 of 21 Oct 64

1. The Service specialist officers in NBC defence at this headquarters agree with your proposal to include some aspects of Nuclear Accident Response in the syllabi for Officer and NCO Advanced Courses, and the Long NBC Staff Officers Course. However, although a detailed knowledge of this subject may be required for the Long course, it is considered that a general knowledge should suffice for the Advanced Courses. The category of personnel who attend the latter courses can be provided with detailed knowledge of the subject by conducting a special NBC 15 course should the need arise.

2. In respect to the equipment requested in the ref, DSEO advises that Scale NBC 12 to RCAF CAP 608 will be amended to include your requirement. The PAC 1S instruments should be available early in the new year. DSEO has requested that procurement of Staplex air samplers be brought forward from the 65/66 fiscal year to the 64/65 year. A decision, is expected within two weeks. Should the decision be favourable, procurement by Jan 65 can be expected.

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Our file ref. JNECS 3310-84/J9



DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT NUCLEAR BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

Camp Borden Ont  
21 Oct 64

The Chief of the Defence Staff  
Canadian Forces Headquarters  
Department of National Defence  
Ottawa 4, Ontario

Attn: DNDO

Referred to	AS 110
OCT 27 1964	
File #	3241-840
Chgd to	

Alpha Monitoring

1 It is proposed to include information and exercise on Nuclear Accident Response, primarily the alpha monitoring aspects, on Oftr and NCO advanced courses and to include this subject in some detail on NBC 13 Staff Officers NBC courses.

2 To accomplish this training adequately the facilities described below are considered essential. This requirement is based upon our experience with the courses run in 1964, which could have been infinitely better had this equipment been available.

3 A minimum quantity of five Pac 1S instruments, together with five sets of calibration sources, one alpha probe repair kit, one spare battery and one battery charger are considered necessary for training purposes.

4 In order to teach proper "operational" use of the Staplex air sampler, or ultimately any equipment which replaces it, two Staplex samples plus power supply are considered necessary.

5 To enable adequate teaching on the above courses and perhaps equally important, to provide a means of training and refreshing alpha monitors generally, the provision of a field of alpha contamination is considered very important. Once established, such a field should be made available to all potential users. Such a field could be provided at relatively low cost. Suitable contaminants, which present little or no radiation hazard are available and should be obtained for this purpose.

6 The "ideal" known to us at the moment is Thorium sludge which AEC (US) apparently had in some quantity and which could be obtained at nominal cost or even the cost of transportation alone. This would require detailed pre-planning involving AECL and DNHW which, it is felt, should be accomplished at the highest possible level.

7 It is recommended that a concentrated planned programme of action should be undertaken at once to provide these facilities and equipment before March 1965. It is requested that this School be kept advised of the status of this project.

*(Handwritten signature)*  
(AH-Blake)  
Wing Commander  
Commandant

cc: Capt Goodfellow (DMT) For Info

000009

*physical characteristics?  
chemical form?  
particle size?*

Our file ref. JNBCS 3310-84/J9



DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT NUCLEAR BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

Camp Borden Ont  
21 Oct 64

The Chief of the Defence Staff  
Canadian Forces Headquarters  
Department of National Defence  
Ottawa 4, Ontario

Attn: DNDO

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(AH Blake)

Wing Commander  
Commandant

→ cc: Capt Goodfellow (DMT) For Info

000010

HQ 3241-S40 (MT 5B)

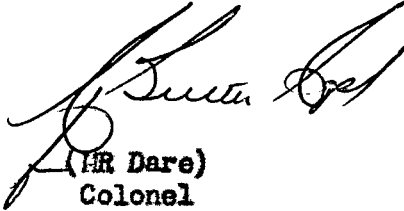
CRP  
ARMY HEADQUARTERS

Ont, 7 Jun 61

Commandant  
JABC School  
Camp Borden, Ont.

National Survival Papers

1. Reference is made to telephone conversation Captains Remhild/Butler of 7 Jun 61.
2. Enclosed are the following papers:
  - HQS 2001-91/T18 (DEP 3) dated 3 Jan 61
  - HQ 2043-2 (DSO&P 3A) dated 8 Dec 60
  - HQ 2001-91/T18 (DSO&P 6) dated 31 Jan 61
  - HQ 2043-2 TD 0322 (DSO&P 4B) dated 22 Mar 61
3. Only one copy of the OGDH publication "Nuclear Weapon Phenomenon and Characteristics" is held at Army Headquarters. It has been requested that this copy be forwarded on loan to JABCS.

  
(Mr Dare)  
Colonel  
Director of Military Training

/nd



CAFA 520



CANADA

Our file ref. JABCS/3310-8 (5 Jun 61)

DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

CAMP BORDEN Ont., 6 Jun 61

Attention: D Pers

Attendance Figures

Nuclear Staff Officers (Survival) Course

1. The attendance figures for the Nuclear Staff Officers (Survival) Course (5 Jun 61 to 30 Jun 61) are as follows:-

CA(R) - 14

2. Nominal roll attached.

② Less Staffs.  
(Maj Staples)

All have reported.  
Sawick & PA, pls.

9 1/6, / Ewart  
Ken Lord 2

(K. E. MOFFAT) Major  
DAAG  
OFFICE OF D. G. A. P.

JUN 20 1961

Reference: *Blue*  
JUN 8 1961  
File No. *3241-540*  
Chgd to *151*

*W. C. Staples*  
(HE Staples)  
Lieutenant Colonel  
Commandant

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

NUCLEAR STAFF OFFICERS (SURVIVAL) COURSE

5 Jun 61 to 30 Jun 61

NUMBER	RANK	NAME	UNIT
ZM 683	Maj	✓ V J FERGUSON ✓	RCAC School, Camp Borden, Ont. 34.
ZA 329	Maj	✓ E R M GRIFFITHS ✓	AHQ (GS Br) DSO&P, Ottawa, Ont. 34.
ZD 2440	Maj	✓ F J LEDOUX ✓	CJATC, Rivers, Man. 24
ZF 2828	Maj	✓ D M MacDONALD ✓	HQ Eastern Command, Halifax, N.S. 31
ZP 1265	Maj	✓ O J F RANKIN ✓	AHQ (GS Br) DSO&P, Ottawa, Ont. 4
ZF 2754	Maj	✓ R W ROSCOE ✓	HQ Eastern Command, Halifax, N.S. 21
ZC 516	Maj	J C STEWART ✓	HQ Eastern Ontario Area, Kingston, Ont.
ZP 2756	Maj	✓ F J SPICOLUK ✓	RCSA, Camp Shilo, Man. 34
ZF 475	Maj	✓ J S WATERFIELD ✓	AHQ (QMG Br) D Wks, Ottawa, Ont. 16
ZK 3617	Capt	L E CORNETT ✓	HQ BC Area, Vancouver, B.C.
ZB 10353	Capt	✓ P G DOWNE ✓	HQ NB Area, Fredericton, N.B.
ZP 9115	Capt	A G FORD ✓	HQ Camp Picton, Picton, Ont.
ZM 4565	Capt	A A HUGHSON ✓	CFMSTC, Camp Borden, Ont.
ZL 3139	Capt	✓ R G MALTBY ✓	AHQ (GS Br) DSO&P, Ottawa, Ont.

CA(R) - 14

Total- 14

060475

EAA426AB186

JUN 06 20 25 '61

MM RCEHC RAEHC

DE RAEBC 37/06

M 061525Z

FM JABCS CAMP BORDEN

TO RCEHC/CANFLGLANT

INFO RAEHC/CANARMY

BT

UNCLASSIFIED A148 FOR DMT CANARMY. REURTEL 151735Z MAY 61.

O-29094 LCDR VC GRECO DID NOT REPORT FOR NBC 8 COURSE COMMENCING 5

JUN. ADVISE

BT

CFN A148 151735Z 61 O-29094 85

06/1735Z JUN RAEBC

3822



DIRECTORATE OF INTELLIGENCE

JUN 6 1961  
JUN 7 1961  
HRS 3244-540  
26 61

② C  
2C

①  
③  
MT 5B  
PS note y PIA  
MT 201 66058  
7 Jun 61  
000014



CAFA 520

Our file ref. JABCS/3310-8(5 Jun 61)

DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont. 6 Jun 61

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

Attention: DMT

Attendance Figures

Nuclear Staff Officers (Survival) Course

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CA(R) - 14

2. Nominal roll attached.

(HE Staples)  
Lieutenant Colonel  
Commandant

③ MT 5B

④

Naval  
6 June  
MT 5B  
9 June 61

②

Notes  
Postal & DMT  
Statistics

3857  
MT 201  
9 JUN 1961

AHQ (att. 8007)

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

NUCLEAR STAFF OFFICERS (SURVIVAL) COURSE

5 Jun 61 to 30 Jun 61

NUMBER	RANK	NAME	UNIT
ZM 683	Maj	V J FERGUSON	RCAC School, Camp Borden, Ont.
ZA 329	Maj	E R M GRIFFITHS	AHQ (GS Br) DSO&P, Ottawa, Ont.
ZD 2440	Maj	F J LEDOUX	CJATC, Rivers, Man.
ZF 2828	Maj	D M MacDONALD	HQ Eastern Command, Halifax, N.S.
ZP 1265	Maj	O J F RANKIN	AHQ (GS Br) DSO&P, Ottawa, Ont.
ZF 2754	Maj	R W ROSCOE	HQ Eastern Command, Halifax, N.S.
ZC 516	Maj	J C STEWART	HQ Eastern Ontario Area, Kingston, Ont.
ZP 2756	Maj	F J SPICOLUK	RCSA, Camp Shilo, Man.
ZF 475	Maj	J S WATERFIELD	AHQ (QMG Br) D Wks, Ottawa, Ont.
ZK 3617	Capt	L E CORNETT	HQ BC Area, Vancouver, B.C.
ZB 10353	Capt	P G DOWNE	HQ NB Area, Fredericton, N.B.
ZP 9115	Capt	A G FORD	HQ Camp Picton, Picton, Ont.
ZM 4565	Capt	A A HUGHSON	CFMSTC, Camp Borden, Ont.
ZL 3139	Capt	R G MALTBY	AHQ (GS Br) DSO&P, Ottawa, Ont.

CA(R) - 14

Total- 14

230335

EAA210AB2480B116

RR LHC RAEBE

DE RAEBO 87/23

R M 231825Z

FM CENCOM

TO RAEHC/CANARMY

INFO RAEBC/JABCS CAMBORD

BT

U N C L A S S I F I E D G 4506 FOR DMT REURTEL TRG 1222 DATED 18

MAY CONCERNS VISIT OF 2 JABCS OFFRS TO CENCOM 29 MAY. CONCUR

IN VISIT AND THIS DATE SATISFACTORY

BT

CFN ~~G 4506 TRG 1222 18 2 29~~

23/1831Z MAY RAEBO

MAY 23 20 1976

MAY 23 20 20 61

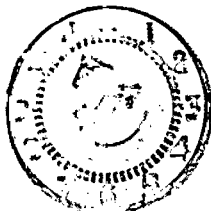
(i)

HQ ~~3210/81/99~~  
3241-540  
BDF-5-2-0-8

(2) Filed -  
Dated by  
1 m's  
24 May 61

19 '61 AM

MEMORANDUM



HQS 9365/ZM 4565 (MI-3)

18 May 61

①  
D Pers

Attn: Maj EA Steelo

NBC 8 NUC Staff Offrs Course

1. Reference is made to your wire PERS 15571 Coord 2.
2. This will confirm that all officers mentioned in your wire hold a current DMI sponsored clearance to SECRET with one exception.
3. ZM 4565 Capt AA HUGHSON, RCAMC holds an outdated clearance and DMI has taken action through Central Command to obtain new CAFB 1690 for updating.

  
(RE Hogarth)  
Col  
DMI

 cc: DMT  
TABO School Camp Borden

②

Gen. R.  
Bureau  
1415  
23 May 61

3633

000018

# MESSAGE FORM

FOR COMMEN/SIGNALS USE

Document divulgué en vertu de la Loi sur l'accès à l'information  
 2019-06-19 (11/58)

3211-540  
 NUMBER

PRECEDENCE - ACTION <b>ROUTINE</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <i>18/2047 May 61</i>		MESSAGE INSTRUCTIONS	
FROM <b>CANADIAN</b>		TO <b>CENCOM</b>		PREFIX <b>GR</b>		SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>	
INFO <b>JULIO GAMBORD</b>				ORIGINATOR'S NUMBER <b>TRG 1222</b>			

REURTEL G 1186 DATED 11 MAY 61. PROPOSE TO CONDUCT MODIFIED EX AT JABCS. ASSISTANCE BY CENTRAL COMD NSO STAFF IN PREPARATION OF EX WOULD BE APPRECIATED. SUBJECT TO YOUR CONCURRENCE TWO OFFICERS FROM JABCS WILL BE SENT TO HQ CENTRAL COMD FOR ONE DAY TO DISCUSS DETAILS WITH NSO STAFF. PREFERRED DATE OF VISIT 29 MAY BUT ANY DATE DURING WEEK 29 MAY TO 2 JUN ACCEPTABLE. IF ABOVE PROPOSAL CONCURRED IN REQUEST YOU DEAL DIRECT WITH JABCS CONCERNING DETAILS OF EX PREPARATION AND VISIT OF OFFICERS.

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		<i>ml</i>					
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM
						RELEASING OFFICER'S SIGNATURE <i>[Signature]</i> (GR DATE) COLONEL DMT			

NNNN 176AB074

MM RAHC

DE RAEC 15/18

M 181200Z

FM JABCS CAMP BORDEN ~~RECEIVED~~ ~~U.S. ARMY~~ ~~TERMINAL~~

TO CANARMY

BT

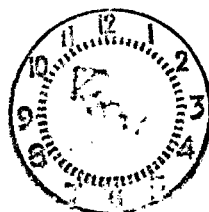
U. N C L A S S I F I E D A135 RETEL TRG 1173 D/15 MAY 61 REFERS EX FOR  
COURSE NBC 8. PARA ONE APPRECIATE DIFFICULTIES IMPOSED IN CONDUCTING  
EX IN NORMANDY HALL AND PROVISION OF OFFRS FROM CENCOM. ALSO APPRECIATE  
SPACE LIMITATIONS FOR EX AT PWC TOO GREAT FOR NUMBERS INVOLVED. PARA  
TWO IN VIEW HOWEVER, OBVIOUS VALUE TO STUDENTS QUALIFYING AS NSOS  
PROPOSE CONDUCTING MODIFIED EX AT JABCS. ASSISTANCE BY CENCOM IN PRE-  
PARING EX WOULD BE GREATLY APPRECIATED. PARA THREE SUBJECT YOUR CON-  
CURRENCE THEREFORE SUGGEST SENDING CAPTS MOORE AND CAMERON TO HQ  
CENCOM FOR ONE DAY TO DISCUSS DETAILS WITH NSO STAFF. 29 MAY 61 PRE-  
FERRED BUT ANY DAY DURING WEEK 29 MAY - 2 JUN 61 ACCEPTABLE. PARA  
FOUR IF CONCURRED IN AUTHORITY REQUESTED TO DEAL DIRECT WITH HQ CENCOM  
CONCERNING DETAILS OF EX PREPARATION AND PROPOSED VISIT OF OFFRS MEN-  
TIONED

BT

CFN A135 1173 15 61 829 61 29 2. 61

18/1255Z MAY RAECB

MAY 18 '61 AM



MAY 18 14 39 '61

MAY 18 14 40 61

180153

53241-540

DMT

# MESSAGE FORM

Document disclosed under the Access to Information Act  
Document divulgué en vertu de la loi sur l'accès à l'information

FOR COMMEN/SIGNALS USE

NUMBER

PA. 3241-540

PRECEDENCE - ACTION	PRECEDENCE - INFO	DATE - TIME GROUP	MESSAGE INSTRUCTIONS
ROUTINE	DEFERRED	15/1510 May 61	
FROM			PREFIX
CANADIAN			GR
TO			SECURITY CLASSIFICATION
JAB'S CAMP BORDEN			UNCLASSIFIED
INFO			ORIGINATOR'S NUMBER
CENCON			TRO 1173

NETEL TRO 1057 DATED 2 MAY 61 REVERES EX FOR COURSE NBC 8.

PARA ONE CENTRAL COMD DOES NOT CONCUR IN PROPOSAL TO CONDUCT OR ASSIST JABCS IN CONDUCTING EX. REASONS FOLLOW:

- NORMAN HALL CAMP BORDEN IS USED FOR OTHER ACCH REGENT THAT ROOMS SUGGESTED CANNOT BE SET UP FOR AN EX AS OUTLINED.
- NUCLEAR STAFF OFFICERS AT CENTRAL COMMAND CANNOT BE SPARED FOR THE TASK OF PREPARING AND CONDUCTING THIS EX OR TO ACT AS ADVISORS IN SUBSEQUENT ONES.

PARA TWO CENTRAL COMD SUGGEST THAT IT WOULD BE POSSIBLE TO SUPERVISE IN A GENERAL WAY IF SUCH AN EX WERE HELD AT THE PWC IN OAKVILLE. VEW

PAGE 1 OF 2 PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.			
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>									
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE

# MESSAGE FORM

FOR COMMEN/SIGNALS USE

NUMBER

- 2 -

PRECEDENCE - ACTION	PRECEDENCE - INFO	DATE - TIME GROUP	MESSAGE INSTRUCTIONS
	DEFERRED		
FROM			PREFIX <b>GR</b>
TO			SECURITY CLASSIFICATION
INFO			ORIGINATOR'S NUMBER

STUDENTS COULD PARTICIPATE BECAUSE OF SPACE LIMITATIONS.

PAGE 2 OF 2 PAGES	REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.				
	CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		/nan		MT 51		G-6010				
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
											(MR. Dore) colonel DIT



NNNN

110541

MAY 11 22 34 '61

MAY 11 22 34 81

3241-540

MAY 12 '61 AM

EAA415EB4360B166

RR RAEHC

DE RAEBO 137/11

R 112020Z

FM CENCOM

TO CANARMY

BT

U N C L A S S I F I E D G1186 FOR DMT REURTEL TRG 1057

DATED 2 MAY CONCERNING AN EX AT JABC SCHOOL.

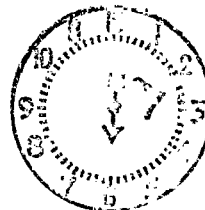
PARA TWO. AS THE BUILDING NORMANDY HALL AT CAMBORD IS USED FOR OTHER TANK ACCN REGRET THAT THE ROOMS SUGGESTED CANNOT BE SET UP FOR AN EX AS OUTLINED. PARA THREE. IT IS ALSO REGRETTED THAT NUCLEAR STAFF OFFRS AT THIS HQ CANNOT BE SPARED FOR THE TASK OF PREPARING AND CONDUCTING THIS EX OR TO ACT AS ADVISORS IN SUBSEQUENT ONES.

PARA FOUR. IT WOULD BE POSSIBLE TO SUPERVISE IN A GENERAL WAY SUCH AN EX IF THIS WERE HELD AT THE OWC IN OAKVILLE. HOWEVER IT SHOULD BE REALIZED THAT BECAUSE OF SPACE LIMITATIONS THE NO OF STUDENTS THAT COULD ACTIVELY PARTICIPATE WOULD BE MUCH CURTAILED

BT

CFN 8 1186 TRG 1057 2

11/2027Z MAY RAEBO



DIRECTORATE OF MILITARY TRAINING  
OTTAWA

SB flg

000023

HQS 3310-84/J9 (IT 5

HQS 3241-S40

BDF 5-2-0-8

ARMY HEADQUARTERS

Ont, 16 Mar 61

Commandant  
JABCS  
Camp Borden, Ont.

NBC 8 - Course Load 5-30 Jun 61

1. Reference JABCS 3310-8 dated 1 Feb 61, in regard to course load NBC 8.
2. Your concern in regard to the reduced intake for NBC 8 is appreciated. It is realized that the course is costly in terms of instructor time per student.
3. Upon receiving advice from EMO that civilian vacancies were not required for NBC 8, DIT requested DGAP to investigate the possibility of providing additional army candidates. Due to the timing of the course and very heavy summer commitments DGAP advised that additional army candidates could not be provided.
4. It is agreed that the course must be conducted even at limited capacity and it is regretted that additional candidates are not available.

*L*  
(MR Dare)  
Colonel

Director of Military Training

MAR 15 '61 PM

CAF 520



DEPARTMENT OF NATIONAL DEFENCE

ARMY

CANADA  
DIRECTORATE OF DEFENCE RESEARCH  
OTTAWA

Our file ref. JABCS/3310-8

In reply to HQC 3310-84/J9 (MT 5B)  
Dated 1 Feb 61 *added*

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

Army Headquarters  
Department of National Defence  
OTTAWA 4 Ont.

CAMP BORDEN Ont, 13 Mar 61

MAR 14 1961

3241-840

DMT

Attention: DMT

NBC 8 - Course Load  
5 - 30 Jun 61

1. The marginally noted NBC 8, Nuclear Defence Staff Officers Course, will be conducted as scheduled. The withdrawal of EMO's request for vacancies on this course has reduced the course to a total of 15 candidates, ie the Army intake. The Commandant JABCS is not prepared to recommend that NBC 8 should be cancelled. Courses will be conducted as required even though a given course may be costly in terms of instructor time per student. However, the recommendation is submitted for consideration that the Army endeavour to fill at least some of the vacancies formerly allotted to EMO. A target course size of at least 20 students is suggested.

*HE Staples*  
(HE Staples)  
Lieutenant Colonel  
Commandant

Re 3241-840

HQC 3310-01/09 (SHE-3B)

CAPF

ARMY HEADQUARTERS

Ont, / Feb 61

Commandant  
JABC School  
CAMP BORDEN,  
Ontario.

NBC 8 - Course Load  
5 - 30 Jun 61

1. The present course load for the marginally named course is:

EMO - 15 candidates

Army - 15 candidates

2. For your information it is advised that EMO will not require any vacancies on this course and therefore your course capacity will be a total of 15 Army candidates.

(MR Dare)  
Colonel

Director of Military Training

ALL/gew

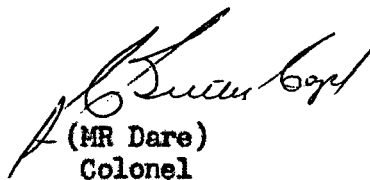
HQC 3241-S40 (MT 5B)

In reply to JABCS/ 7901-1  
Dated 29 Dec 60  
ARMY HEADQUARTERS  
, Ont 10 Feb 61

Commandant  
JABC School  
CAMP BORDEN, Ontario

AIR WAVES  
National Survival Script and Tape

1. DSO&P advise that the AIR WAVES script and tape in their present form do not adequately present the Army's responsibility in Attack Warning or Fallout Reporting. The script and tape should not be used until they have been modified to incorporate the suggestions listed in DSO&P memorandum HQ 3241-S40 (DSO&P 4a) dated 21 Nov 60 a copy of which was sent to JABC School under cover HQ 3241-S40 (MT 5) dated 22 Nov 60.
2. DSO&P is considering the production of a similar device to be used across Canada as part of a National Survival presentation. When this device will be produced or what form it will take is not known.
3. It has been requested that, when the device is produced, one be allotted to JABC School for retention.

  
(MR Dare)  
Colonel  
Director of Military Training



M E M O R A N D U M

HQC 3241-S40 (MT 5B)

10 Feb 61

FEB 10 1961

File 3241-S40

Referred To... SO 1

①

DSO&P

AIR WAVES

National Survival Script and Tape

1. Reference is made to HQC 3241-S40 (DSO&P 1b) dated 31 Jan 61.
2. JABC School has been notified of the content of the memorandum under reference.
3. It is requested that, when the "similiar device" is produced by DSO&P, one be allotted to JABC School for retention.

② Seen PA.  
No further action.  
*[Signature]*  
SO 1b  
13 Feb 61

*[Signature]*  
(Mr Dare)  
Colonel  
Director of Military Training

MEMORANDUM

DA HQC 3241-S40 (MT 5B)

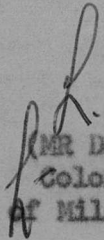
18 Feb 61

DSO&P

AIR WAVES

National Survival Script and Tape

1. Reference is made to HQC 3241-S40 (DSO&P 1b) dated 31 Jan 61.
2. JABC School has been notified of the content of the memorandum under reference.
3. It is requested that, when the "similiar device" is produced by DSO&P, one be allotted to JABC School for retention.

  
(MR Dare)  
Colonel  
Director of Military Training

/ceb

PRIVY COUNCIL OFFICE



BUREAU DU CONSEIL PRIVÉ

Your file: HQS 3819-84/J9(MT 5B)

Ottawa, 1 February, 1961.

Director of Military Training,  
Department of National Defence,  
"A" Building, Elgin Street,  
Ottawa, Ontario.

Attention: Major A.L. MacDonald

Referred to *DMT*  
*3240-84/J9*  
*3241-840*  
File No. *DMT 2/2/61*

Dear Sir:

Further to our letter dated 16 December, 1960, regarding attendance of civil defence candidates at the JABC School Nuclear Staff Officer (Survival) Courses and with reference to the discussion held with Mr. Little on Wednesday, 25 January, we wish to inform you officially that EMO will not require any further vacancies on Nuclear Staff Officer (Survival) Courses at the JABC School. It is also our decision that there will not be any requirement to consider scheduling a two week Nuclear Staff Officer Course for civilians as indicated in our letter dated 8 July, 1960.

May we take this opportunity to express our thanks for the assistance you have given to the general civilian training programme by permitting us to use your excellent JABC School facilities.

Yours sincerely,

②

DSO & P.

To note and return please.

We plan to drop NBC 8 from the Course schedule <sup>but</sup> ~~and~~ schedule the NBC 8 courses instead of the normal one. If more <sup>rel. cost.</sup>

DMT  
3-Feb-61

*R.B. Curry*  
R.B. Curry,  
Director,  
Emergency Measures Organization.

Emergency Measures Organization.

③ DMT  
Noted  
H. J. 7 Feb 61

④  
seen by  
AT-col Moore  
8/2/61

DSO & P  
6 1961  
File  
Referred To: *501*

000030



FEB 3 '61 AM



DIRECTORATE OF INTELLIGENCE  
OTTAWA

M E M O R A N D U M

HQC 3241-S40 (DSO&P 1b)

31 Jan 61

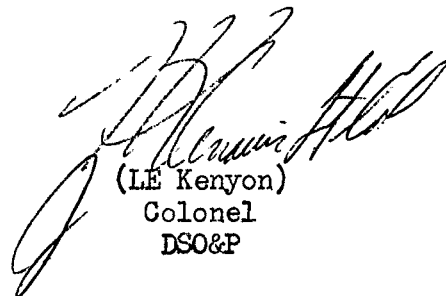
DMT

Attn: MT 5

AIR WAVES

National Survival Script and Tape

1. The tape AIR WAVES produced by the JABCS is considered to have considerable value as a training aid, particularly when used in conjunction with lectures on National Survival.
2. The use of a similar device is now being considered as part of a new and improved National Survival presentation being produced by DSO&P, which may well be used across Canada.
3. The AIR WAVES script and tape in their present form do not adequately present the Army's responsibilities in Attack Warning or Fallout Reporting. It is therefore suggested that no further use be made of the AIR WAVES tape until JABCS have modified it incorporating the suggestions listed in our memorandum HQ 3241-S40 (DSO&P 4a) of 21 Nov 60.

  
(LE Kenyon)  
Colonel  
DSO&P

PRIVY COUNCIL OFFICE



CANADA

File No. C40-4

BUREAU DU CONSEIL PRIVÉ

Ottawa, 16 December, 1960.

Your file HQS 3310-84/J9(MT 5B)

Director of Military Training,  
Canadian Army,  
Department of National Defence,  
Cartier Square,  
OTTAWA, Ontario.

Attention: Major A.L. MacDonald

Dear Sir:

Reference is made to your letter dated 13 Dec 60 regarding the attendance of civil defence candidates at the JABC School NBC 8 - Nuclear Staff Officers Course (Survival), 26 September - 21 October, 1960.

It is regretted that only seven of the fifteen vacancies allocated to civilians sponsored by EMO were utilized. Unfortunately, Provincial Civil Defence Co-ordinators were unable to select the required calibre of candidate to meet the course prerequisites who could be absent from his duties during the time of the course and for the required four weeks period.

It will not be possible for us to advise you of our requirements for either vacancies on the NBC 8 Course scheduled for 5-26 June, 1961, or a separate two weeks course, as discussed during our meeting of 6 July, 1960, until such time as we have had an opportunity to study the individual recommendations of civilian students attending the last course.

②  
Hides

BF 15 JAN 61  
C. L. Smith  
HRSB  
2/6

Sig 1  
BF again  
23 Jan 61  
16 Jan

... /2


1766  
000033

Referred to	DMT
DEC 20	3241-840
File No	3310-840-9
Chgd to	

- 2 -

Every effort will be made, however, to have our views and recommendations concerning our future requirements for vacancies on the next NBC 8 Course or a separate two week's course forwarded to you by 15 Jan 61.

Yours sincerely,

  
for R.B. Curry  
Director

Emergency Measures Organization

3241-040  
HQS 3310-84/39  
(MT 5B)

CRPA

ARMY HEADQUARTERS

Ont, 12 Dec 60

Emergency Measure Organization  
Privy Council  
West Block  
OTTAWA, Ontario.

Attention: Mr E Atkins

NBC 8 - Nuclear Staff Officers Course (Survival)  
Attendance by Civil Defence Candidates

1. Reference is made to the meeting of EMO and Army representatives of 6 Jul 60 to discuss the suitability of NBC 8 (four weeks) course for civil defence candidates.
2. EMO representative expressed dissatisfaction with NBC 8 both in length of course and subject material.
3. It was agreed:
  - a. EMO would take advantage of the course vacancies allotted them on NBC 8 course 26 Sep - 21 Oct 60.
  - b. EMO would study the reports and results of their candidates on this course with a view to recommendations for future courses of this type.
4. Your comments would be appreciated accordingly.

(MR Dare)  
Colonel

Director of Military Training

/nd

①

Our file ref. JABCS/7901-1

DEPARTMENT OF NATIONAL DEFENCE

ARMY

In reply to HQ 3241-54 MT 5  
Dated 22 Nov 60

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont, 29 Dec 60

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario.

Attention: DMT (MT 5)

AIR WAVES  
Script and Tape

Referred to	DMT
File no.	JAN 3241-540
Shgd to	

1. The tape AIR WAVES was produced as a spare time project by officers attending the first NBC 8 (Nuclear Staff Officers (Survival)) Course held at JABCS during the spring of 1960.
2. During the past months the tape and script have been loaned within Central Command a number of times for use in conjunction with lectures and exercises in National Survival. Its popularity indicates that a similar tape could be used to advantage throughout other parts of Canada. It is therefore suggested that consideration be given to producing a similar tape for distribution to Commands.
3. It is felt that a tape and script of this nature should, in order to ensure its authenticity, be produced by DSO&P. Either an entirely new one could be made or perhaps the existing one could be revised in accordance with the agreed sequence for dissemination of warnings as outlined in DSO&P memo HQ 3241-54 (DSO&P 4a) dated 21 Nov 60, a copy of which was attached to the letter referenced above.
4. The tape and script of AIR WAVES are held at JABCS and could be made available on request, should the above suggestion be acceptable.

(2)  
Comments pls.  
to Bureau by  
MTSB  
6-6040

(HE Staples)  
Lieutenant Colonel  
Commandant

DSO & P
JAN 6 1961
File .....
Referred To... 50.4

HQ 3241-54 (MT 5)

CRPT 3241-A40

ARMY HEADQUARTERS

Ont, 22 Nov 60

Commandant  
JABC School  
CAMP BORDEN Ontario

Airwaves

1. Reference your JABCS 7901-1 dated 18 Oct 60 in regard to your script AIRWAVES.
2. Attached are comments by DSO&P. In view of these comments you may wish to revise your script accordingly.

(Mr Dare)  
Colonel  
Director of Military Training

/nt





CONFIDENTIAL

(Attachments Only)

HQC 3241-S40 TD 0340  
(DSO&P 1a)

ARMY HEADQUARTERS

Ont, 6 Dec 60

Director  
Emergency Measures Organization  
Privy Council Office  
East Block, Parliament Buildings  
OTTAWA, Ontario

Attn: Mr Atkins

Course Reports - NBC 8  
Mr EG Sherring  
Mr P Theriault

1. Reference is made to a recent telephone conversation Mr Atkins - Capt MacEachern concerning course reports for Mr Sherring and Mr Theriault from the NBC 8 Course held at Camp Borden 28 Mar to 14 Apr 60.
2. Enclosed are certified true copies of the reports requested for your files.

*MacEachern*  
(IE Kenyon)  
Colonel  
DSO&P

EDM/2-5892/mad

CONFIDENTIAL

000039

CONFIDENTIAL  
(Attachments Only)

MEMORANDUM

HQS 3310-84/J9 (MT 5B)

HQ 3241-S40

*Dec*  
2 Nov 60

DSO&P

Attention: SO 1a

Course Reports  
Mr EG Sherring  
Mr P Theriault

Referred to *DSO&P*  
DEC 5 1960  
File No. *3241-S40*  
Chgd to.....

1. Ref telecon Cpts MacEachern - Butler of 27 Nov.
2. Attached are certified true copies of Course Reports for Mr Sherring and Mr Theriault who attended NBC 8, Nuclear Defence Staff Officers Course, 28 Mar to 14 Apr 60.
3. The original Course Reports were forwarded by JABC School to D Pers under JABCS/3640 dated 15 Apr 60.

*[Signature]*  
(MR Dare)  
Colonel  
Director of Military Training

*DSO&P*  
DEC 6 1960  
File .....  
Referred To *SO 1a*.....

CONFIDENTIAL  
(Attachments Only)

000040

CONFIDENTIAL  
(Attachments Only)

MEMORANDUM

HQS 3310-84/J9 (MT 5B)  
HQ 3241-840 <sup>DE</sup>  
2 Nov 60

DSO&P

*CR PA*  
Attention: SO 1a

Course Reports  
Mr EG Sherring  
Mr P Theriault

1. Ref telecon Capts MacEachern - Butler of 27 Nov.
2. Attached are certified true copies of Course Reports for Mr Sherring and Mr Theriault who attended NBC 8, Nuclear Defence Staff Officers Course, 28 Mar to 14 Apr 60.
3. The original Course Reports were forwarded by JABC School to D Pers under JABCS/3640 dated 15 Apr 60.

*[Signature]*  
(MR Dare)  
Colonel  
Director of Military Training

/s

CONFIDENTIAL  
(Attachments Only)

000041

~~CONFIDENTIAL~~  
(Attachments Only)

Our file ref.....JABCS/3310-8....



DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont

30 Nov 60

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ont.

Attention: DMT (Capt Butler)

Course Reports  
Mr EG Sherring  
Mr P Theriault

1. Reference telecom Maj Newton - Capt Butler of 28 Nov 60.
2. Attached are certified true copies of Course Reports for Mr Sherring and Mr Theriault who attended NBC 8 Nuclear Defence Staff Officers Course, 28 Mar to 14 Apr 60.
3. Original copies of Course Reports were forwarded on JABCS/3640-/dated 15 Apr 60 to AHQ attention D Pers.

(RE Newton) Major  
Acting for (HE Staples)  
Lieutenant Colonel  
Commandant

Encls.

~~CONFIDENTIAL~~  
(Attachments Only)

000042



MEMORANDUM

HQ 3241-54 (DSO&P 4a)

21 Nov 60

DNT

National Survival Attack Warnings

1. Reference is made to the attached National Survival Exercise "Air Waves" which is being presented by the JABCS Camp Borden Ontario.
2. DSO&P have reviewed this exercise and recommend that it be amended to conform with the agreed sequence for the dissemination of warnings which is an army responsibility.
3. The sequence is as follows:
  - a. The Alert Warning - This state will be disseminated to the public by a steady siren signal of three minutes duration and by simultaneous transmission over broadcast stations.
  - b. Immediately the Alert signals is disseminated. A nation wide broadcast network will be established and a Federal Announcement will be made to the general public (most likely by the Prime Minister).
  - c. At a time designated by the Federal Authority, dependant on the attack pattern, the National Broadcast Network will be replaced by Provincial Broadcast Networks and the Provincial Premiers will then have an opportunity to broadcast to their respective provinces.
  - d. When the attack approaches within 600 miles of a possible Canadian target Area the Federal or Provincial military authority will issue the "Take Cover Warning".
  - e. The Take Cover Warning is disseminated to the public by an undulating or wrbling siren signal and by simultaneous transmission over the emergency radio broadcast networks.
  - f. Subsequent warnings and instructions will be continually passed to the public. Sirens will be used to warn of fallout and this information will also be broadcast by the emergency network.
4. It is pointed out that the army is responsible for the disseminate of warnings and the provision of communication circuits which will provide means of introducing programme material into designated radio broadcast stations or networks, whereas instructions other than warnings are the responsibility of the respective government officials.

(J. Kenyon)  
Colonel  
DSO&P

HBC/6-6916/jk

000043

CONFIDENTIAL

HQC 3241-840  
(DSO&P 1a.)

ARMY HEADQUARTERS  
OTTAWA, Ont., 14 Nov 60

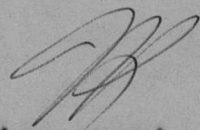
Director,  
Emergency Measures Organization,  
Privy Council Office,  
East Block, Parliament Buildings,  
OTTAWA, Ontario.

Attention: Mr P Theriault

Course Reports  
NBC 8

1. Reference is made to the telephone conversation Mr Theriault - Capt MacEachern this afternoon.
2. Enclosed are three copies of the course reports on the following personnel for distribution as shown in Annex A.

Mr HJ Bernatchez  
Mr BL Bishop  
Mr A Henderson  
Mr A Moilliet  
Mr KG Reilly  
Mr PD Searles  
Mr WL Shelden

  
(AE Wrinch)  
Major-General  
Major-General Survival

NDM/2-5892/bb

CONFIDENTIAL

000044



ANNEX "A" to: HQC 3241-S40 (DSO&P 1a)  
DATED: 14 Nov 60

Course Candidate

Mr H J Bernatchez

Mr B L Bishop

Mr A Henderson

Mr A Moilliet

Mr K G Reilly

Mr FD Searles

Mr W L Shelden

Course Report to be forwarded to:

Mr H J Bernatchez  
GD College  
Arnprior Ont

Minister of Education  
Department of Education  
Confederation Building  
St Johns, Nfld.

Minister Hon Dr. GH Focker

Co-ordinator  
Albert Emergency Measures Org  
Box 275  
Edmonton Alta.

Superintendent  
Pacific Naval Lab  
HMCS Dockyard  
Esquimalt B.C.

Mr MS Hurst  
Deputy Fire Marshal  
Fire Marshal's Office  
210 Huron St  
Toronto 5, Ont

Mr A Currie  
Civil Defence Co-ordinator  
Province of Manitoba  
201 Kennedy St  
Winnipeg, Man.

Commissioner of Works  
The Municipality of  
Metropolitan Toronto  
Department of Works  
55 Eglinton Ave. E.  
Toronto 12, Ont

T.D. No. 0299

DEPARTMENT OF NATIONAL DEFENCE

## TEMPORARY DOCKET

ARMY

[illegible]

25-782

## INSTRUCTIONS

1. Temporary Dockets are to deal WITH ONE CASE ONLY.
2. T.D.'s NOT to be placed on main file UNLESS Central Registry informed by means of Form D.N.D. 710.
3. T.D. No. together with main file number to be quoted on all correspondence originated.
4. T.D.'s not to be passed from one service to another.
5. Action should be taken as soon as possible in order that main file may be kept up to date. If action cannot be taken within 48 working hrs., B.F. Docket.
6. T.D.'s to be requisitioned, passed, B.F.'d. etc., in the same manner as main files by means of Form D.N.D. 710.

~~CONFIDENTIAL~~

HQC 3241-S40  
(DSO&P 1a)

*Donlas*  
*who atts.*

ARMY HEADQUARTERS  
OTTAWA, Ont., 14 Nov 60

Director,  
Emergency Measures Organization,  
Privy Council Office,  
East Block, Parliament Buildings,  
OTTAWA, Ontario.

Attention: Mr P Theriault

Course Reports  
NBC 8

1. Reference is made to the telephone conversation Mr Theriault - Capt MacEachern this afternoon.
2. Enclosed are three copies of the course reports on the following personnel for distribution as shown in Annex A.

Mr HJ Bernatchez  
Mr BL Bishop  
Mr A Henderson  
Mr A Moilliet  
Mr KG Reilly  
Mr FD Searles  
Mr WL Shelden

*[Signature]*  
(AE Urinch)

Major-General

Major-General Survival

NDV/2-5892/bb

~~CONFIDENTIAL~~

000047

ANNEX "A" to: HQC 3241-S40 (DSO&P 1a)  
DATED: 14 Nov 60

Course Candidate

Mr H J Bernatchez

Mr B L Bishop

Mr A Henderson

Mr A Moilliet

Mr K G Reilly

Mr FD Searles

Mr W L Shelden

Course Report to be forwarded to:

Mr H J Bernatchez  
CD College  
Arnprior Ont

Minister of Education  
Department of Education  
Confederation Building  
St Johns, Nfld.

Minister Hon Dr. GH Focker

Co-ordinator  
Albert Emergency Measures Org  
Box 275  
Edmonton Alta.

Superintendent  
Pacific Naval Lab  
HMC Dockyard  
Esquimalt B.C.

Mr MS Hurst  
Deputy Fire Marshal  
Fire Marshal's Office  
210 Huron St  
Toronto 5, Ont

Mr A Currie  
Civil Defence Co-ordinator  
Province of Manitoba  
201 Kennedy St  
Winnipeg, Man.

Commissioner of Works  
The Municipality of  
Metropolitan Toronto  
Department of Works  
55 Eglinton Ave. E.  
Toronto 12, Ont



JABCS/3640-1

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont, 21 Oct 60

Army Headquarters  
Department of National Defence  
OTTAWA 4 Ontario

①  
Attention: DMT

Course Reports

1. Enclosed are three copies of course reports on the following personnel for distribution:

Mr	H J	BERNATCHEZ
Mr	B L	BISHOP
Mr	A	HENDERSON
Mr	A	MOILLIET
Mr	K G	REILLY
Mr	F D	SEARLES
Mr	W L	SHEIDEN

Referred *ont*  
JUL 25 1960  
File No. *3241-S40*  
Checked to *D 504P 27/9/60*

*(Signature)*  
(HE Staples)  
Lieutenant Colonel  
Commandant

*DS*  
cc: Headquarters Central Command  
Oakville Ontario

②  
*D504P*  
*in distribution &*  
*EMO*  
*for Humber CofH*  
*MT 20 66058*  
*9 Nov 60*

Annex "A" to: JABCS/3640-1  
Dated : 21 Oct 60

Course Candidate

Mr H J Bernatchez

Mr B L Bishop

Mr A Henderson

Mr A Moilliet

Mr KG Reilly

Mr FD Searles

Mr WL Sheldon

Course Report to be forwarded to:

Mr H J Bernatchez  
CD College  
Arnprior Ont

Minister of Education  
Department of Education  
Confederation Building  
St Johns, Nfld.

Minister Hon Dr. GH Focker

Co-ordinator  
Albert Emergency Measures Org  
Box 275  
Edmonton Alta.

Superintendent  
Pacific Naval Lab  
HMC Dockyard  
Esquimalt B.C.

Mr MS Hurst  
Deputy Fire Marshal  
Fire Marshal's Office  
210 Huron St  
Toronto 5, Ont

Mr A Currie  
Civil Defence Co-ordinator  
Province of Manitoba  
201 Kennedy St  
Winnipeg Man.

Commissioner of Works  
The Municipality of  
Metropolitan Toronto  
Department of Works  
55 Eglinton Ave. E.  
Toronto 12, Ont

OCT 13 1960 PM

Our file ref. JABCS/3310-8(26 Sep)



Referred to.....  
OCT 7 1960  
D Pers Registry  
Org'd to.....

DEPARTMENT OF NATIONAL DEFENCE

ARMY

DEPARTMENT OF DEFENCE

JOINT ATOMIC-BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont, 6 Oct 60

①

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

Referred to..... *D/Pers*

Attention: D Pers

File No.

OCT 7  
3241-S40  
le off 3-10-60  
0277A

Attendance Figures  
Nuclear Staff Officers (Survival) Course

1. Reference JABCS 3310-8(26 Sep) dated 27 Sep 60  
please amend para 1 CA(R) - 14 vice 17.

⑤

DDMT (DMT's)

Is note & PA pls.

GPW 13 Oct

13/10/60  
Per Cond 2

*H E Staples*  
(H E Staples)  
Lieutenant Colonel  
Commandant

RECEIVED

OCT 7 1960

D Pers (Coord)

000051

147

MAIN FILE No. 3241-S40 T.D. No. 0277 A

DEPARTMENT OF NATIONAL DEFENCE

# TEMPORARY DOCKET

**ARMY**

[illegible]

## INSTRUCTIONS

1. Temporary Dockets are to deal WITH ONE CASE ONLY.
2. T.D.'s NOT to be placed on main file UNLESS Central Registry informed by means of Form D.N.D. 710.
3. T.D. No. together with main file number to be quoted on all correspondence originated.
4. T.D.'s not to be passed from one service to another.
5. Action should be taken as soon as possible in order that main file may be kept up to date. If action cannot be taken within 48 working hrs., B.F. Docket.
6. T.D.'s to be requisitioned, passed, B.F.'d. etc., in the same manner as main files by means of Form D.N.D. 710.



Our file ref. JABCS/3310-8 (26 Sep 60)



DEPARTMENT OF NATIONAL DEFENCE

ARMY

① JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario.

Attention: D Pers.

Attendance Figures  
Nuclear Staff Officers (Survival) Course

CAMP BORDEN Ont, 27 Sep 60

Received

SEP 30 1960

File No. 3241-A40  
Chgd to DSO & P 27/9/60

1. The attendance figures for the Nuclear Staff Officers (Survival) Course (26 Sep 60 to 21 Oct 60) are as follows:

CA(R) - 1714  
Civ - 7

Nominal roll attached.

④  
DMT (MTS)  
To note & 1A files  
6/10/60  
Pers End 2

⑤  
To note LPA  
70c/60

W. Staples  
(HE Staples)  
Lieutenant Colonel  
Commandant

Encl 115

②  
To note & 1A files  
3/10/60  
Pers End 2

③  
Pers Coord  
Noted. Thank  
you.  
1001

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

NUCLEAR STAFF OFFICERS (SURVIVAL) COURSE

NOMINAL ROLL 26 Sep 60 to 21 Oct 60

NUMBER	RANK	NAME	UNIT
ZC 2140	Maj	J J BELAND ✓	3 R22eR, Camp Valcartier, Que
ZD 192	Maj	R BERUBE ✓	HQ Quecom, Montreal, Que
ZP 1228	Maj	M D CHAFFEE ✓	West Que Sig Sqn, Montreal, Que
ZM 4193	Maj	LGP ESMONDE-WHITE ✓	HQ Quecom, Montreal, Que
ZC 3360	Maj	J E FORRESTER ✓	HQ East Ont Area, Kingston, Ont
ZM 3234	Maj	G M FINDLAY ✓	AHQ(Br of the GS) DSO&P, Ottawa, Ont
ZB 687	Maj	BWE LEE ✓	AHQ(Br of the GS) DSO&P, Ottawa, Ont
ZA 2713	Maj	F J MURPHY ✓	HQ Wescom, Edmonton, Alta
ZC 2244	Maj	F A POLLAK ✓	HQ Cent Ont Area, Oakville, Ont
ZM 817	Maj	WBS SUTHERLAND ✓	1 PPCLI, Esquimalt, BC
ZH 2282	Maj	J S WALDIE ✓	HQ Alta Area, Edmonton, Alta
ZP 1369	Maj	R A WILD ✓	HQ NB Area, Fredericton, NB
ZA 10140	Capt	C K BISSET ✓	CS of MI, Camp Borden, Ont
ZA 4679	Capt	O L ROBERTS ✓	HQ Man Area, Winnipeg, Man
	Mr	H J BERNATCHEZ	CD College, Arnprior, Ont
	Mr	B L BISHOP	Nfld Prov CD, St Johns, Nfld
	Mr	A HENDERSON	HQ Alta EMO, Edmonton, Alta
	Mr	A MOILLIET	Pacific Naval Lab (DRB), Victoria, BC
	Mr	K G REILLY	Ont Fire Marshals Office, Toronto
	Mr	F D SEARLES	Man Prov CD, Winnipeg, Man
	Mr	W L SHELLEN	Works Dept., Toronto, Ont



Our file ref. JABCS/3310-8(26 Sep)



DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont, 6 Oct 60

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

Attention: DMT

Referred to	<i>smt</i>
OCT 7 1960	
File No	<i>3241-840</i>
Chgd to	<i>0277</i>

Attendance Figures

Nuclear Staff Officers (Survival) Course

1. Reference JABCS 3310-8(26 Sep) dated 27 Sep 60  
please amend para 1 CA(R) - 14 vice 17.

*W. E. Staples  
amended  
with H. E. Staples  
cost  
mtrc  
11 Oct 60*

*W. E. Staples*  
(H E Staples)  
Lieutenant Colonel  
Commandant

Our file ref.



ARMY

## JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont., 27 Sep 60

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario.

Attention: DMT

### Attendance Figures

Nuclear Staff Officers (Survival) Course

SEP 30 1960  
File # 3241-A40  
Chg. 1 0804P 27/9/60

1. The attendance figures for the Nuclear Staff Officers (Survival) Course (26 Sep 60 to 21 Oct 60) are as follows:

CA(R) - 17  
Civ - 7

2. Nominal roll attached.

(HE Staples)  
Lieutenant Colonel  
Commandant

Encl

Wanted  
Posted to  
Statistical Book  
JPH  
MT 2c  
3 Oct 60

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOLNUCLEAR STAFF OFFICERS (SURVIVAL) COURSENOMINAL ROLL 26 Sep 60 to 21 Oct 60

NUMBER	RANK	NAME	UNIT
ZC 2140	Maj	J J BELAND	3 R22eR, Camp Valcartier, Que
ZD 192	Maj	R BERUBE	HQ Quecom, Montreal, Que
ZP 1228	Maj	M D CHAFFEE	West Que Sig Sqn, Montreal, Que
ZM 4193	Maj	LGP ESMONDE-WHITE	HQ Quecom, Montreal, Que
ZC 3360	Maj	J E FORRESTER	HQ East Ont Area, Kingston, Ont
ZM 3234	Maj	G M FINDLAY	AHQ(Br of the GS) DSO&P, Ottawa, Ont
ZB 687	Maj	BWE LEE	AHQ(Br of the GS) DSO&P, Ottawa, Ont
ZA 2713	Maj	F J MURPHY	HQ Wescom, Edmonton, Alta
ZC 2244	Maj	F A POLLAK	HQ Cent Ont Area, Oakville, Ont
ZM 817	Maj	WBS SUTHERLAND	1 PPCLI, Esquimalt, BC
ZH 2282	Maj	J S WALDIE	HQ Alta Area, Edmonton, Alta
ZP 1369	Maj	R A WILD	HQ NB Area, Fredericton, NB
ZA 10140	Capt	C K BISSET	CS of MI, Camp Borden, Ont
ZA 4679	Capt	O L ROBERTS	HQ Man Area, Winnipeg, Man
	Mr	H J BERNATCHEZ	CD College, Arnprior, Ont
	Mr	B L BISHOP	Nfld Prov CD, St Johns, Nfld
	Mr	A HENDERSON	HQ Alta EMO, Edmonton, Alta
	Mr	A MOILLIET	Pacific Naval Lab (DRB), Victoria, BC
	Mr	K G REILLY	Ont Fire Marshals Office, Toronto
	Mr	F D SEARLES	Man Prov CD, Winnipeg, Man
	Mr	W L SHELLEN	Works Dept., Toronto, Ont

NNWEEA280

MM RAEHC

DE RAEPB 66/26

M 261900Z

FM JABCS BORDEN

TO CANARMY

BT

U N C L A S S I F I E D A343 FOR MAJ GEN WRINCH MGS FROM FINDLAY PD  
REQUEST COPY OF MINUTES (HAVING TO DO WITH SURVIVAL) OF CSG CONF BE SENT  
TO JABC SCHOOL SOONEST IF YOU AGREE PD SOME OF TEACHING IS AT VARIANCE  
WITH LATEST IDEAS ON SURVIVAL GIVEN AT CONF PD MAJ LESE AND MYSELF CAN  
GO OVER MINUTES AND POINT OUT CHANGES TO SCHOOL PERS

BT

CFN A343

26 2002Z SEP RAEPB

(3) Director  
Have sent Findlay copy of  
each presentation to CSG Conference  
and have discussed with Col Kearne.  
Findlay has been advised to act  
carefully because of the joint  
aspect at JABCS.

(4) MGS  
plans min (3) of  
20 Sep 66

(1)

CB5

LE KENYON  
COLONEL  
DCO & P

SEP 29 1960

SEP 26 21 11Z 60

DSO & P	
SEP 27 1960	
File	344-140
Referred To	So1

1/27

3-5519

(2)  
DSO & P  
We shall have to bring  
JABC School up to date - and should be  
able to do so now because comd's &  
areas will be teaching the new  
concept right away. Pls send  
info when available - speak  
DGINT.

A. E. WRINCH  
Major-General  
M.G.S.

29 SEP 1 000059

# MESSAGE FORM

FILE

Document disclosed under the Access to Information Act / Document divulgué en vertu de la Loi sur l'accès à l'information  
 HQ 3310-82/49 (DSOP 1)

FOR COMMEN/SIGNALS USE

NUMBER

P.A. 3241-846

PRECEDENCE - ACTION <b>PRIORITY</b>	PRECEDENCE - INFO DEFERRED	DATE - TIME GROUP <b>23/1945Z SEP 60</b>	MESSAGE INSTRUCTIONS
FROM <b>OANARMY</b>			PREFIX <b>GR</b>
TO <b>JABC SCHOOL BORDEN</b>			SECURITY CLASSIFICATION <b>UNCLAS</b>
INFO <b>PERS SR OFFRS } DET (MT 2C) } BY HAND</b>			ORIGINATOR'S NUMBER <b>S OPS 535</b>

REF COURSE NBC 8 ASSEMBLING 25 SEP 60. ZC 174 MAJ PR CAMPBELL HOSPITALIZED THIS  
 DATE AND MAY NOT BE ABLE TO ATTEND COURSE. WILL ADVISE FURTHER 26 SEP 60.

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		(ND MacEachern) Capt		SD 1a		2-5892	
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM
						RELEASING OFFICER'S SIGNATURE <i>ND MacEachern Capt</i>			



MESSAGE FORM

3241-840

pa ~~3240-840~~ 40

PRECEDENCE-ACTION

DATE/TIME/GP

ROUTINE

22/1900 /SEP 60

FROM: CANARMY

TO: CENCOM

INFO: CAMPET/JABC SCHOOL BORDEN

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS 29007 COORD 2

PARA 1 PERS 21774 COORD 2 OF 19 JUL 60 REFERS NBC 8 NUC STAFF OFFRS COURSE  
COMMENCING AT JABC SCHOOL 26 SEP 60

PARA 2 FROM LIST OF CANDIDATES SELECTED TO ATTEND DELETE ZG 699 MAJ WK  
CHARTERS CDN GDS HQ CAMP PETAWAWA (.) OFFR NOT AVAL TO ATTEND

ORIGINATOR

PHONE

FILE REF:

*West*

2-3565

HQ ~~3310-84/59~~ (Pers Coord 2)

cc: DSO&P  
DMT (MT5)  
D Inf  
Pers Sr Offrs  
Pers RCIC

①

PA

MESSAGE FORM

3241-140

PRECEDENCE-ACTION

DATE/TIME/GP

ROUTINE

22/1900 /SEP 60

SECURITY CLASSIFICATION

UNCLAS

FROM: CANARMY

TO: CENCOM

ORIGINATOR'S NUMBER

INFO: CAMPET/JABC SCHOOL BORDEN

PERS 29007 COORD 2

PARA 1 PERS 21774 COORD 2 OF 19 JUL 60 REFERS NBC 8 NUC STAFF OFFRS COURSE  
COMMENCING AT JABC SCHOOL 26 SEP 60

PARA 2 FROM LIST OF CANDIDATES SELECTED TO ATTEND DELETE ZG 699 MAJ WK  
CHARTERS CDN GDS HQ CAMP PETAWAWA (.) OFFR NOT AVAL TO ATTEND

ORIGINATOR

PHONE

FILE REF:

2-3565

HQ 3310-84/J9 (Pers Coord 2)

cc: DSO&P  
DMT (MT5)  
D Inf  
Pers Sr Offrs  
Pers RCIC

DSO + P

B27

# MESSAGE FORM

Document disclosed under the Access to Information Act  
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FILE HQ 3310-81/39

FOR COMMEN/SIGNALS USE

NUMBER

PRECEDENCE - ACTION

PRECEDENCE - INFO

DATE - TIME GROUP

MESSAGE INSTRUCTIONS

DEFERRED

DEFERRED

21/1320 Sept 60

FROM

CANARMY

PREFIX

GR

TO

JABC SCHOOL BORDEN

SECURITY CLASSIFICATION

UNCLASSIFIED

ORIGINATOR'S NUMBER

TRQ

1943

INFO

PARA ONE REFERS CRSES SCHEDULE 1960/61 ANNEX "T" NBC 8 STARTS  
26 SEP 60.

PARA TWO FOLLOWING TWO CANDIDATES SELECTED TO ATTEND THIS SERIAL.

MR A. MOILLIET, VICTORIA BC - DRB

MR AJ HENDE SON, EDMONTON, ALTA - ALTA EMO

MR FD SEARLES, WINNIFEG, MAN - MANITOBA CD

MR KO REILLY, TORONTO, ONT - ONT FIRE MARSHAL'S OFFICE

MR J BERNATCHEZ, ARMPRIOR, ONT - CD COLLEGE

MR SM MACINNIS, CHARLOTTETOWN, PEI - PROVINCIAL CD

MR BL BISHOP ST JOHN'S, NFLD - NFLD DEPT OF EDUCATION

MR WL SHELLEN TORONTO, ONT - TORONTO WORKS DEPT

PAGE 1 OF 2 PAGES

REFERS TO MESSAGE

DRAFTER'S NAME

OFFICE

TEL.

CLASSIFIED YES ☐ NO ☐

FOR  
OPR'S  
USE

R

DATE

TIME

SYSTEM

OPERATOR

D

DATE

TIME

SYSTEM

OPERATOR

RELEASING OFFICER'S SIGNATURE

# MESSAGE FORM

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Document divulgué en vertu de la Loi sur l'accès à l'information  
FILE

FOR COMMEN/SIGNALS USE

NUMBER

**2**

PRECEDENCE - ACTION	PRECEDENCE - INFO DEFERRED	DATE - TIME GROUP	MESSAGE INSTRUCTIONS
<b>FROM</b>  <b>TO</b>  <b>INFO</b>			PREFIX  <b>GR</b>
			SECURITY CLASSIFICATION
			ORIGINATOR'S NUMBER

**PARA THREE ALL ABOVE CANDIDATES SECURITY CLEARED TO SECRET**

**PARA FOUR MR BISHOP IS REPLACING MR CONGDON OF ST JOHN'S NFLO.**

**CC: MT 5  
ENO**

PAGE <b>2</b> OF <b>2</b> PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.			
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		<b>RMH/ml</b>		<b>MT 20</b>		<b>6-6058</b>			
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
											<b>(MR Dare) Colonel</b>

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF S43 (REV 3/59)  
7530 - 21 - 562 - 1556

**COPY 2**

**INT**

**000065**

# MESSAGE FORM

Document disclosed under the Access to Information Act  
Document divulgué en vertu de la Loi sur l'accès à l'information  
FILE

FOR COMMOEN/SIGNALS USE

NUMBER

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO <b>DEFERRED</b>		DATE - TIME GROUP <b>11/185849/60</b>		MESSAGE INSTRUCTIONS	
FROM <b>CANARY</b>						PREFIX <b>GR</b>	
TO <b>JABC SCHOOL BORDEN</b>						SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>	
INFO						ORIGINATOR'S NUMBER <b>TRG 1455</b>	

PARA ONE REOURTEL 1943 DATED 21 SEP 60 REFERS CROSES  
SCHEDULE 1960/61 ANNEX "T" NBC 8 NOMINAL ROLL.  
DELETE: MR SM MACINNIS, CHARLOTTETOWN  
PEI. NO REPLACEMENT AVAILABLE.

CO: MT 5

3/110

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.			
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		<b>RMH/ml</b>		<b>MT 20</b>		<b>6-6058</b>			
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
											<b>(MR Dare) Colonel</b>

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF S43 (REV 3/59)  
7530 - 21 - 562 - 1556

COPY 3

000066



# MESSAGE FORM

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Document divulgué en vertu de la Loi sur l'accès à l'information

FORM 1000MMCN/SIGNALS USE

NUMBER

GRIPA

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <b>21/1320 Sep 60</b>		MESSAGE INSTRUCTIONS	
FROM <b>CANARY</b>				PREFIX <b>GR</b>			
TO <b>JABC SCHOOL BORDEN</b>				SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>			
INFO				ORIGINATOR'S NUMBER <b>TRG 1943</b>			

PARA ONE REFERS CRSES SCHEDULE 1960/61 ANNEX "T" REC 8 STARTS  
26 SEP 60.

PARA TWO FOLLOWING EMO CANDIDATES SELECTED TO ATTEND THIS SERIAL.

MR A. NOILLANT, VICTORIA BC = DRB

MR AJ HENDERSON, EDMONTON, ACTA = ALTA RHN

MR PD SEARLES, WISNIPED, MAN = MANITOBA CD

MR KO REILLY, TORONTO, ONT = ONT FIRE MARSHAL'S OFFICE

MR J BERNATCHESZ, AMTRIOR, ONT = CD COLLEGE

MR SM MACINENS, CHARLOTTETOWN, PEI = PROVINCIAL CD

MR BL BISHOP ST JOHN'S, NFED = NFED DEPT OF EDUCATION

MR WL SHELLEN TORONTO, ONT = TORONTO WORKS DEPT

PAGE <b>1</b> OF <b>2</b> PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>							
FOR OPR'S USE	DATE	TIME	SYSTEM	OPERATOR	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
<b>R</b>					<b>D</b>				

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF 543 (REV 3/59)  
7530 - 21 - 562 - 1556

COPY 4

000067

## MESSAGE FORM

FORM COMM/CEN/SIGNALS USE

FILE

NUMBER

PRECEDENCE - ACTION	PRECEDENCE - INFO DEFERRED	DATE - TIME GROUP	MESSAGE INSTRUCTIONS
FROM			PREFIX GR
TO			SECURITY CLASSIFICATION
INFO			ORIGINATOR'S NUMBER

PARA THREE ALL ABOVE CANDIDATES SECURITY CLEARED TO SECRET

PARA FOUR MR BISHOP IS REPLACING MR CONDON OF ST JOHN'S HPLD.

CC: HT 5  
END

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		RHM/ml		HT 20		4-0050	
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	DATE	TIME	SYSTEM	OPERATOR
					D				
RELEASING OFFICER'S SIGNATURE									
(MR Dure) Colonel									
DMT									

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320.A (REV 3/59)  
RCAF 543 (REV 3/59)  
7530 - 21 - 562 - 1556

COPY 4

000068



EAA421SCA069

200489

DSO & P  
SEP 20 1960  
3319 - 84/59  
File 260  
Referred To...  
32 41-140

MM RAELC

DE RAEPB 44/20

M 201515Z

FM JABCS BORDEN

TO CANARMY

BT

①  
U N C L A S S I F I E D A330 FOR DSO & P RE CGS UNNUMBERED LETTER DATED  
15 SEP 60 REFERS DRESS FOR MAJS LEE CMM CAMPBELL CMM AND FINDLAY  
ATTENDING NBC 8 COURSE 26 SEP 60 PD NO 6 DRESS ONLY REQUIRED CMM NO 3  
DRESS OPTIONAL

BT

CFN A330 15 60 8 28 60 3

20/1740Z SEP RAEPB

②  
SOST  
S03a  
1. To note pls  
2. Snaj Findlay info  
by phone this date  
Gardner  
to D DSO & P  
20 Sep 60

# MESSAGE FORM

FOR COMMEN/SIGNALS USE

NUMBER

*GR 100-1-100  
30241-100*

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <i>12/1840 Sep 60</i>		MESSAGE INSTRUCTIONS	
FROM <b>CANARY</b>						PREFIX <b>GR</b>	
TO <b>JABC SCHOOL BORDEN</b>						SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>	
INFO						ORIGINATOR'S NUMBER <b>TRG 1868</b>	

PARA ONE HE CRIES SCHEDULE 1960-61 ANNEX T NBC 8 STARTS 26 SEP 60.

PARA TWO COURSE WILL BE ATTENDED AS FOLLOWS:

ANQ SELECTION PERS 21774 COORD 2 DATED 19 JUL 60 REFERS  
15 CANDIDATES.

EMO EIGHT CANDIDATES FOR A TOTAL OF 23.

PARA THREE ALL CANDIDATES CLEARED TO SECRET. CANDIDATES WILL  
ADVISE JABC SCHOOL ETA AND METHOD OF TRAVEL.

CC: MT 5  
DSOAF  
EMO

PAGE		OF		PAGES		REFERS TO MESSAGE				DRAFTER'S NAME <i>As</i>				OFFICE <b>MT 20</b>				TEL. <b>6-6033</b>			
CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>																					
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE <i>(MR DANE) COL DNT</i>										

*Any 3-10-61  
HAR  
CAPT*

SEP 15 '60 PM



PRIVY COUNCIL OFFICE



BUREAU DU CONSEIL PRIVÉ

OTTAWA, September 13, 1960.

MTS

The Director,  
Directorate of Military Training,  
Department of National Defence,  
Ottawa, Ontario.

Attention Lt.Col. T. Moore.

Dear Colonel Moore:-

SEP 15 1960  
File # 3241-140  
SEP 13 1960

I refer to our letter of 7 September,  
in which we provided you with a list of personnel who have  
been selected by the Emergency Measures Organization to  
attend the Nuclear Staff Officers Course at Camp Borden from  
26 September to 21 October, 1960.

Would you please substitute for Mr. J. P.  
Congdon, St. John's Newfoundland, the name of Mr. Benjamin  
Lloyd Bishop, of the Newfoundland Department of Education.

Mr. Bishop has been security cleared to  
Secret.

Yours sincerely,

*[Signature]*  
R. B. Curry  
Director

Emergency Measures Organization

BK

②  
MT2C  
1. Further to flag A.  
2. May JABCS be informed  
please of amendments for mis-  
20 Sep.

③  
MTS  
JABCS School  
advised. Nominal Roll  
RTH/Mod/...  
MT2C  
20 Sep 60

# MESSAGE FORM

FOR COMMCEN/SIGNALS USE

NUMBER

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <b>16/1932 Sept 60</b>		MESSAGE INSTRUCTIONS	
FROM <b>CANARMY</b>				PREFIX <b>GR</b>			
TO <b>JABCS BORDEN / CAMBORD</b>				SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>			
INFO				ORIGINATOR'S NUMBER <b>TRG 1912</b>			

REURLET JABCS/3310-8 DATED 9 SEP 60 REGARDING SECURITY  
CLEARANCE REQUIREMENT NBC 8. ASSUME OURTEL TRG 1868  
DATED 12 SEP CLARIFIES THIS MATTER. CONFIRMED ALL  
CANDIDATES CLEARED SECRET. CIVILIAN ORGANIZATIONS  
QUITE CLEAR ON SECURITY REQUIREMENT.

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.			
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		/ms							
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
											(MR. Dare) Col DMT

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF 543 (REV 3/59)  
7530 - 21 - 562 - 1556

COPY 3

000072

# MESSAGE FORM

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Document divulgué en vertu de la Loi sur l'accès à l'information

FOR COMMCEN/SIGNALS USE

NUMBER

CRPA 3241-840

PRECEDENCE - ACTION <b>ROUTINE</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <b>12/1540 Sep 60</b>		MESSAGE INSTRUCTIONS	
FROM <b>CANARMY</b>						PREFIX <b>GR</b>	
TO <b>CINCOM</b>						SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>	
INFO <b>JABCS CAMBORD</b>						ORIGINATOR'S NUMBER <b>TRG 1864</b>	

PARA ONE: REQUEST RECEIVED THIS HQ FROM JABCS FOR SERVICES  
ZB 121 MAJ JW McCLENNAN, RCA, AS GUEST LECTURER  
TO NBC-8 ON 14 OCT 60 FROM 1500-1545 HRS.

PARA TWO: SCOPE OF REQUIRED LECTURE INCLUDES ORG AND FUNCTION  
OF FWC AND PWCS AND DUTIES OF NSO AT COMMAND OR  
AREA HQ.

PARA THREE: THIS REQUEST APPROVED SUBJECT TO YOUR CONCURRENCE.

PARA FOUR: IF REQUEST CONCURRED IN, ADVISE JABCS DIRECT WITH  
INFO THIS HQ.

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		<b>KRM/he</b>		<b>MT 5B</b>		<b>6-6040</b>	
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	DATE	TIME	SYSTEM	OPERATOR
					<b>D</b>				
RELEASING OFFICER'S SIGNATURE <b>SH Surolet</b> <b>77 (MR DARE) COLONEL DMT</b>									

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF S43 (REV 3/59)  
630-21-562-1556

COPY 3

000073

MESSAGE FORM

3241-Sub

PRECEDENCE-ACTION

DATE/TIME/GP

DEFERRED

31/1900/AUG 60

FROM: CANARMY

TO: GENCOM

INFO: JABC SCHOOL BORDEN

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS 26152 COORD 2

PARA 1 ZA 10110 CAPT CK BISSET C INT C CS OF MI HAS BEEN SELECTED TO ATTEND  
NBC 8 NUCLEAR STAFF OFFERS (SURVIVAL) COURSE AT JABC SCHOOL FROM 26 SEP  
TO 21 OCT 60

PARA 2 CAPT BISSET CLEARED TOP SECRET

PARA 3 CANDIDATE WILL BE DESPATCHED TO REPORT TO JABC SCHOOL IN ACCORDANCE WITH  
JOINING INSTRUCTIONS CONTAINED IN THE COURSES MANUAL

ORIGINATOR

PHONE

FILE REF:

2-3565

HQC 3310-84/J9 (Pers Coord 2)

cc: DSO&P  
DMT (MT 5)  
DMI  
Pers Misc

PA



MESSAGE FORM

3241-840

~~pa 3240-840~~

PRECEDENCE-ACTION

DEFERRED

DATE/TIME/GP

30/1530/AUG 60

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS 26137 COORD 2

FROM: CANARMY

TO: WESCOM

INFO: JABC SCHOOL BORDEN

PARA 1 YOUR G927 OF 26 AUG 60 REFERS NBC 8 NUC OFFR COURSE AT JABC SCHOOL  
COMMENCING 26 SEP 60

PARA 2 AUTH GRANTED TO DELETE ZK 2704 MAJ SV LLOYD 2 RCHA FROM LIST OF CANDIDATES  
SELECTED TO ATTEND AND SUBSTITUTE ZA 4679 CAPT OL ROBERTS LDSH (RC) HQ  
MAN AREA

ORIGINATOR

PHONE

FILE REF:

2-3565

HQ ~~3310-84/79~~ (Pers Coord 2)

cc: DSO&P  
DMT (MT 5)  
D Armd  
Pers Sr Offrs  
Pers RCAC

PA

JABCS/3310-8  
Our file ref.....



DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont. 9 Sep 60

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario.

Attention: MT 5

NBC 8 Nuclear Staff Officers' (Survival) Course  
Security Clearance Requirement

Referred to *DMT*.....

SEP 13 1960

File No. *3241-140*.....

Chgd to.....

1. Students attending the JABCS Course NBC 8 require a security clearance of SECRET. This is reflected in the draft joining instructions for civilians submitted to DMT (MT 5) under our JABCS/3310-8 over 1300-6 dated 8 Jul 60. Annex A para 4 b. of the letter refers.

2. Three civilian nominations for NBC 8 commencing 26 Sep 60 have been received, none of which include the security clearance of the nominee. Attached are copies of three messages sent in reply.

3. If candidates arrive for whom no security clearance has been received, there will be no alternative but to return them to their unit. This action is likely to be misconstrued by the civilian organizations concerned, and could result in many undesirable consequences.

4. In view of the above it is recommended that:

- a. all civilian organizations concerned be emphatically reminded that notification of the necessary security clearance is imperative prior to arrival at JABCS;
- b. a clear direction be given to JABCS regarding action to be taken in the case of a civilian student who arrives without the required security clearance.

*H.E. Staples*  
(HE Staples)

Lieutenant Colonel  
Commandant

Encl

*67380 mtr Atkins.*



# MESSAGE FORM

Document disclosed under the Access to Information Act  
Document divulgué en vertu de la Loi sur l'accès à l'information  
JABCS/3310-8(26 Sep  
NUMBER

FOR COMMCEN/SIGNALS USE

PRECEDENCE - ACTION

PRECEDENCE - INFO

DATE - TIME GROUP

MESSAGE INSTRUCTIONS

DEFERRED

915302 SEP 60

FROM JABCS CAMP BORDEN

PREFIX

GR

TO CD COLLEGE ARNPRIOR Canadian Civil Defence College  
Arnprior, Ontario.

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

A299

INFO CANARMY (BY MAIL) TCO

REURLET DATED 6 SEP 60 REFERS MR HJ BERNATCHEZ ATTEND NBC 8  
COURSE JABCS COMMENCING 26 SEP 60 (.) PLS ADVISE IF MR BERNATCHEZ  
HAS REQUIRED SECURITY CLEARANCE SECRET FOR COURSE (.) SECURITY  
CLEARANCE MUST BE RECEIVED PRIOR COURSE COMMENCEMENT

PAGE OF PAGES

REFERS TO MESSAGE

DRAFTER'S NAME

OFFICE

TEL.

CLASSIFIED YES ☐ NO ☐

Cpl CK McEdwards OR

2572

FOR OPR'S USE	R	DATE	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
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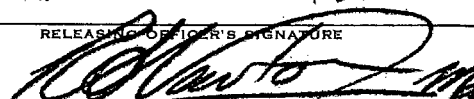
CAFB 1718 (JBF) (REV 9/58)  
CNS 1320 A (REV 9/58)  
RCAB 843 (REV 9/58)  
7530 - 21 - 562 - 1556

COPY 2

000077


PRECEDENCE - ACTION	PRECEDENCE - INFO DEFERRED	DATE - TIME GROUP 9/530Z SEP 60	MESSAGE INSTRUCTIONS
FROM JABCS CAMP BORDEN			PREFIX GR
TO CIVIL DEFENCE BRANCH WINNIPEG Province of Manitoba Civil Defence Branch 2nd Floor, 201 Kennedy St. Winnipeg 1, Manitoba			SECURITY CLASSIFICATION UNCLAS
INFO CANARMY (BY MAIL) TCO			ORIGINATOR'S NUMBER A300

REURLET DATED 1 SEP 60 REFERS MR FD SEARLES ATTEND NBC8 COURSE JABCS  
 COMMENCING 26 SEP 60 (.) PLS ADVISE IF MR SEARLES HAS REQUIRED SECURITY  
 CLEARANCE SECRET FOR COURSE (.) SECURITY CLEARANCE MUST BE RECEIVED PRIOR  
 COURSE COMMENCEMENT

PAGE		OF		PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
						CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		Cpl CK McEdwards		OR		2572	
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE		
													

PRECEDENCE - ACTION		PRECEDENCE - INFO		DATE - TIME GROUP		MESSAGE INSTRUCTIONS	
		DEFERRED		9/530Z SEP 60			
FROM JABCS CAMP BORDEN						PREFIX GR	
TO AIBERTA CIVIL DEFENCE EDMONTON Alberta Civil Defence PO Box 275 10322-146 St Edmonton, Alta.						SECURITY CLASSIFICATION UNCLAS	
INFO CANARMY (BY MAIL) TCO						ORIGINATOR'S NUMBER A 301	

RELET S-14 DATED 6 SEP 60 REFERS MR AJ HENDERSON ATTEND NBC8 COURSE JABCS  
 COMMENCING 26 SEP 60 (.) PLS ADVISE IF MR HENDERSON HAS REQUIRED SECURITY  
 CLEARANCE SECRET FOR COURSE (.) SECURITY CLEARANCE MUST BE RECEIVED PRIOR  
 COURSE COMMENCEMENT

PAGE OF PAGES			REFERS TO MESSAGE			DRAFTER'S NAME			OFFICE			TEL.		
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FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE			
														

# MESSAGE FORM

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FOR COMM/CEN/SIGNALS USE

FILE

NUMBER

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO <b>DEFERRED</b>	DATE - TIME GROUP <b>12/18/60 Sept 60</b>	MESSAGE INSTRUCTIONS
FROM	CANARMY			PREFIX <b>GR</b>
TO	JABC SCHOOL BORDEN			SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>
INFO				ORIGINATOR'S NUMBER <b>TRG 1868</b>

PARA ONE RE CRSES SCHEDULE 1960-61 ANNEX T NBC 8 STARTS 26 SEP 60.

PARA TWO COURSE WILL BE ATTENDED AS FOLLOWS:

AHQ SELECTION PERS 21774 COORD 2 DATED 19 JUL 60 REFERS  
15 CANDIDATES.

EMO EIGHT CANDIDATES FOR A TOTAL OF 23.

PARA THREE ALL CANDIDATES CLEARED TO SECRET. CANDIDATES WILL  
ADVISE JABC SCHOOL ETA AND METHOD OF TRAVEL.

CC: MT 5  
DSO&P  
EMO

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME <b>RHM/lb</b>		OFFICE <b>MT 2C</b>		TEL. <b>6-6058</b>	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>							
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM
						RELEASING OFFICER'S SIGNATURE <b>(MR DARE) COL DMT</b>			

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF S43 (REV 3/59)  
7530 - 21 - 562 - 1556

COPY 3

000080

PRIVY COUNCIL OFFICE



BUREAU DU CONSEIL PRIVÉ

OTTAWA, 7 September 1960.

Directorate of Military Training,  
Department of National Defence,  
"A" Building,  
Ottawa, Ontario.

Attention: Lt-Col. T. Moore

Referred to *DMT*  
SEP 9 1960  
File No. *3241-440*  
Chgd to

Dear Sir:

In accordance with the JABC School  
Joining Instructions for Course NBC 8, Nuclear  
Staff Officers (Survival), 26 September to 21  
October 1960, and arrangements made with DMT,  
the following personnel have been selected by EMO  
to attend this course:

Mr. A. Moilliet, Victoria, B.C. Defence Research Board  
Mr. A.J. Henderson, Edmonton, Alta. Alberta Emergency  
Measures Organization  
Mr. F.D. Searles, Winnipeg, Man. Manitoba Civil Defence  
Mr. K.G. Reilly, Toronto, Ont. Ontario Fire Marshal's  
Office  
Mr. W.L. Sheldon, Toronto, Ont. Metro Toronto Works  
Department  
Mr. J. Bernatchez, Arnprior, Ont. Canadian Civil Defence  
College

*N. J. A.  
9 Sep 60  
MISA*

*Sean  
School  
advised  
Roxford  
9 Sep 60*

.... / 2



HQ 3310-3 (DGAP)

M E M O R A N D U M

OTTAWA,

Aug 60

Pers Coord

NBC 8 - Nuc Staff Offrs Course

26 Sep - 21 Oct 60

1. Reference is made to HQ 3310-3 (DGAP) dated 18 Jul 60.
2. D Armour has requested that the nomination of Major WAP Smith for NBC 8 be cancelled. A copy of the request is attached. ♡
3. May action be taken to cancel Major Smith's nomination and substitute that of Major JS Waldie now listed as an alternate choice.

ORIGINAL SIGNED BY  
LT-COL AJ BAKER

(AJ Baker) Lt-Col  
AAG Pers Senior Officers

M E M O R A N D U M

HQ 3310-3 (D Armour)

10 Aug 60

Referred to...	<i>Ofers</i>
AUG 11 1960	
File No...	<i>3241-140</i>
Chgd to.....	

D Pers

NBC 8, NUC STAFF OFFERS COURSE - JABC SCHOOL  
ZA 2003 MAJ WAP SMITH, LdSH (RC)  
26 Sep - 21 Oct 60

1. It is requested that the nomination of Major WAP Smith as a student on NBC 8 be cancelled and a replacement substituted from a source other than RCAC.
2. The current turnover of squadron commanders is posing a very serious continuity problem at the Regiment; two of the four squadron commanders are new, a third is attending the Senior Officers Course, Kingston.

*W E Tedlie*  
1/2 (A. James Tedlie)  
Colonel  
Director of Armour



## MESSAGE FORM

3241-840

PRECEDENCE - ACTION

DATE TIME GROUP

ROUTINE

19/1930 /JUL 60

FROM:

CANARMY

TO:

WESCOM / GENCOM / QUECOM / EASCOM / 1 AAU  
(BY HAND)

JABC SCHOOL CAMP BORDEN

SECURITY CLASSIFICATION

UNCIAS

ORIGINATOR'S NUMBER

PERS 21774 COORD 2

PARA 1 FOL OFFRS HAVE BEEN SELECTED TO ATTEND NBC 8 NUC STAFF OFFRS COURSE AT JABC  
SCHOOL CAMP BORDEN 26 SEP TO 21 OCT 60

ZA 2003	MAJ	WAP	SMITH	LdSH (RC)	LdSH (RC)
ZM 4193	MAJ	LGP	ESMONDE-WHITE	LdSH (RC)	HQ QUE COMD
ZC 2244	MAJ	FA	POLLACK	RCD	HQ CENT ONT AREA
ZA 2713	MAJ	JF	MURPHY	RCD	HQ WEST COMD
ZB 404	MAJ	WO	RONEY	RCA	HQ WEST ONT AREA
ZK 2704	MAJ	SV	LLOYD	RCA	2 RCHA
ZP 1369	MAJ	RA	WILD	RCE	HQ NB AREA
ZP 1228	MAJ	MD	CHAFFEE	RC SIGS	WEST QUE SIG SQN
ZG 699	MAJ	WK	CHARTERS	CDN GDS	HQ CAMP PETAWAWA
ZM 3234	CAPT	GM	FINDLAY	PPCLI	AHQ GS BR DSO&P
ZM 817	MAJ	WBS	SUTHERLAND	PPCLI	1 PPCLI
ZC 2140	MAJ	JJ	BELAND	R22eR	3 R22eR
ZD 192	MAJ	R	BERUBE	R22eR	HQ QUE COMD
ZC 174	MAJ	PR	CAMPBELL	RCOC	AHQ GS BR DSO&P
ZB 687	MAJ	BWE	LEE	C PRO C	AHQ GS BR DSO&P

PARA TWO MAJS LLOYD, SUTHERLAND AND BELAND CLEARED TO SECRET, REMAINDER TOPSEC

PARA THREE CANDIDATES WILL BE DESPATCHED TO REPORT TO JABC SCHOOL IN ACCORDANCE  
WITH JOINING INSTRS CONTAINED IN MANUAL OF COURSES

ORIGINATOR

PHONE

FILE REFERENCE

2-3565

HQ 3310-81/J9 (Pers Coord 2)

cc: DSO&P  
DMT (MT 2C)  
D Armd  
D Arty

CE / D Sigs / D Inf / DOS / FM (A) / Pers RCAC/Pers RCA/Pers RC Sigs/Pers RCI000085  
Pers RCOC/Pers Misc

MEMORANDUM

3241-840  
HQS ~~3310-84~~/J9 (MT 5)  
BDF 5-2-0-8

17 Aug 60

CO  
M. H. DAREY  
COLONEL  
BDF

SEP 30 1960

DMT

NBC 8 - Nuclear Staff Officers Course (Survival)  
Attendance by Civil Defence Candidates

1. Reference the letter from EMO and your Minute 3 regarding the marginally noted at Flag A.
2. Initially, EMO stated that there was a requirement to train their civilian personnel in NBC and requested vacancies at the JABCS accordingly. This request was considered by the interdepartmental training policy committee at their meeting held on 26 May 60.
3. As a result of this meeting, the Secty interdepartmental training policy committee was advised of the Army acceptance of an EMO commitment as outlined by the letter from DGMT at Flag B.
4. On 30 Jun 60 Mr Atkins, EMO Staff Training Officer, telephoned and requested a meeting to further discuss the arrangements which had been finalized as mentioned in para 3 above.
5. On Wednesday, 6 Jul, a meeting was held with the following in attendance:

Lt Col HE Staples	(CO Designate JABCS)
Lt Col JC Bond	DEP
Maj AL MacDonald	MT 5
Mr E Atkins	EMO
Mr CH Little	EMO

6. The EMO reps expressed dissatisfaction with the NBC 8 course as arranged. In short, they said:
  - a. In view of the fact that their candidates had university degrees in Science and Engineering, the NBC 8 course of four weeks covered many subjects which were either not applicable or essential to students of this calibre.
  - b. In view of the fact that many of their potential candidates were volunteers, they felt no persons would accept a course nomination of four weeks, or, in any event, could not take a month from their civilian employment.
  - c. They suggested that a special course of two weeks would meet the objections as listed at a. and b. above provided it was held in the month of Jul.

- PAW  
30 Sep 60
7. It was suggested to the EMO reps that the points raised seemed inconsistent with their original request for assistance and that such restrictions should have been discussed originally. They were further advised that no immediate action could be taken as flexibility was restricted due to the fact:

.../2

- 2 -

- a. For Army purposes, clear terms of reference were contained in the DGMT letter to Secty, Interdepartmental Training Policy Committee (Flag B).
  - b. The JABCS course schedule for 60/61 was already authorized and published (Flyleaf).
8. Although not in agreement with the point raised regarding the high standard of EMO candidates, it was pointed out that the Army was familiar and sympathized with their problem of obtaining volunteer candidates on a course of four weeks duration.
9. In view of the Army point of view as stated above, the EMO reps stated that they would take advantage of their vacancy allotment to NBC 8 to be held 26 Sep - 21 Oct 60, but they would request consideration be given to the provision of a special two weeks course to be held in Jul 61.
10. It was agreed that:
- a. EMO should study the reports and results of their candidates on the NBC 8 course on 26 Sep - 21 Oct 60 to ensure this course, in fact, was not suitable to their need, and,
  - b. Lt Col Staples and MT 5 would explore the possibility of setting up a special two weeks course in Jul 61 in conjunction with the commitments and available resources of JABCS.
11. It is felt that further consideration will serve no purpose until:
- a. EMO has the opportunity to study the reports subsequent to the NBC 8 course to be held 26 Sep - 21 Oct 60.
  - b. Lt Col Staples has the opportunity to assess the implications this proposal presents to his present commitments and resources.
12. Until further study proves to the contrary, it is considered that JABCS could conduct a special two weeks course in Jul 61 if the interests of interdepartmental cooperation should so require. It would seem fair to state, however, that if the special courses for EMO are to be considered as a future commitment, it may be necessary to cut some training course now slated for the benefit of the armed forces themselves.

*L MacDonald*  
(AL MacDonald) Maj  
A/MT 5

PRIVY COUNCIL OFFICE



CANADA

BUREAU DU CONSEIL PRIVÉ

Your file: HQS 3310-84/J9 (MT 5B)  
BDF 5-2-0-8

Ottawa, 8 July, 1960.

Colonel R.A. Keane,  
Director General of Military Training (DGMT),  
Canadian Army,  
Department of National Defence,  
"A" Building, 125 Elgin Street,  
Ottawa, Ontario.

Dear Colonel Keane:

Receipt is acknowledged of your letter dated 9 June, 1960, concerning the ABC Training Sub-Committee's decision regarding attendance of civil defence candidates at the JABC School Course NBC 8 - Nuclear Staff Officers (Survival).

The ABC Training Sub-Committee's decision to provide for the attendance of 15 civilian candidates at each of the two scheduled NBC 8 courses is much appreciated.

The extension of the course to 4 weeks, however, and the possibility of obtaining provincial candidates for such a long period, particularly those with degrees in science or engineering, created a need in our opinion for some further discussion with members of your staff to consider the possibility of reducing the NBC 8 Course to 2 weeks duration.

To this end a meeting was arranged in Major MacDonald's office on Wednesday morning, 6 July, which was attended by Mr. Little and Mr. Atkins from EMO, and Lt.Col.Bond and Lt.Col. Stacey.

During the ensuing discussion, it was agreed that:

- (a) EMO would obtain 15 civilian candidates for the NBC 8 Course scheduled for 26 September to 21 October, 1960.

③ MT 5  
when does this stand?

R.A. KEANE  
COLONEL  
DGMT

M. F. DUMAS  
COLONEL  
DMT

AUG 15 1960

000088

- (b) Consideration would be given by the Army to scheduling a 2 week Nuclear Staff Officer (Survival) Course for civilians at the JABC School during the month of July, 1961, with a civilian course intake of 30 and a course syllabus tailored to meet the requirements of candidates with university degrees in science and engineering or an equivalent level of competence.

It would be appreciated if you would please advise when a decision has been made with regard to the scheduling of this 2 week Nuclear Staff Officer (Survival) Course for civilians at the JABC School during the month of July, 1961.

Yours sincerely,



E. Atkins,  
Secretary,  
Interdepartmental Radiological Defence  
Working Group.

*Should be placed on  
agenda for next Interdepartmental  
Defence Policy Committee*

JUL 11 '60 PM



DIRECTORATE OF MILITARY TRANSPORT  
OTTAWA

3241-840

HQS 3310-84/J9 (MT 5B)  
BDF 5-2-0-8

*sent BDF*

ARMY HEADQUARTERS  
OTTAWA Ont, 9 Jun 60

Secretary,  
Interdepartmental Training Policy Committee.

NBC 8 - Nuclear Staff Officers (Survival)  
Attendance by Civil Defence Candidates

1. Reference is made to the 5th meeting of the Interdepartmental Training Policy Committee held on 26 May when it was requested that the JABC School consider the training of certain civilians.

2. The matter was considered at the 7th meeting of the ABC Training Sub-Committee at Camp Borden on 30 May. That committee reports:

- a. The 1960/61 course schedule provides for two NBC 8 - Nuclear Staff Officer (Survival) Courses to be held from 26 Sep to 21 Oct 60 and 5 to 30 Jun 61.
- b. Provision will be made for the attendance of 15 civilian candidates (male or female) on each course.
- c. The duration of the course has been extended to four weeks. This increase is necessary because of the experience gained on the special Nuclear Staff Officers Course held at the JABC School in April of this year. At the end of that course it was unanimously agreed that future courses would have to be increased by one week if the material was to be covered adequately.
- d. The scope, prerequisites and joining instructions for the course will be forwarded at a later date.

ORIGINAL SIGNED  
BY DGMT

(RA Keane)  
Colonel

Army Member

Interdepartmental Training Policy Committee

/pb







# Department of National Defence

IN REPLY PLEASE QUOTE

No. JAECS/3310-8  
1300-6

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ontario

8 Jul 60

①

Army Headquarters  
Department of National Defence  
OTTAWA, Ontario

Attention: DMT (MT5)

## JOINING INSTRUCTIONS

NBC8-Nuclear Staff Officers (Survival) Course

1. In accordance with Item 9 of the Minutes of the 7th meeting of the ABCTSC d/16 Jun 60, attached as Annex "A" is a copy of the proposed Joining Instructions for NBC8 for on-ward transmission to EMO.

Referred to...	<i>Dmt</i>
JUL 12 1960	
File No.	<i>3241-840</i>
Chgd to...	<i>ASQ.T.P. 14/5/60</i>

① Note to file  
copy has been sent to  
EMO (no attach) 14 Jul 60.

See. 14 Jul 60

A PA please.

*K E Grant*  
(K E Grant)  
Commander RCN  
Commandant

ANNEX "A" TO  
JABCS 3310-8  
1300-6  
DATED 6 Jul 60

## JOINING INSTRUCTIONS

### NBC8-Nuclear Staff Officers (Survival) Course

#### GENERAL

1. JABCS will conduct two "Nuclear Staff Officers (Survival) Courses" at Camp Borden during the periods 26 Sep-21 Oct 60 and 5 Jun-30 Jun 61. It is expected that fifteen vacancies will be available for EMO on each course.

#### DETAILS OF COURSE

2. AIM - To provide sufficient knowledge and practical experience to ensure complete understanding and intelligent use of information available to officers and selected civilian candidates employed:

- a. As Nuclear Defence Staff Officers (Survival) at Command or Area Headquarters.
- b. On survival operations dealing with:
  - (1) Fallout prediction
  - (2) Fallout plotting
  - (3) National Survival Attack Warning system
- c. As Technical Staff Officers (Nuclear) at federal and provincial (regional and zonal) levels.

3. SCOPE - A study of:

- a. Nuclear weapons and effects
- b. Operations in radioactive areas
- c. Nuclear detection, prediction and radiation reporting systems
- d. Meteorology
- e. Biological and chemical munitions and employment.

4. PREREQUISITES

- a. Be of the rank of Captain (Army) or equivalent status and above  
Civilian candidates should be:
  - (1) A member of EMO, or
  - (2) A federal, provincial or municipal government employee who by reason of his/her employment is required to participate in civil emergency planning and operational activities
  - (3) Graduates of a recognized university with a degree in science or engineering.
- b. Be security cleared to SECRET.

## DURATION OF COURSE

Four weeks

## LOCATION

6. The Joint Atomic, Biological and Chemical Defensive Warfare School (abbreviation JABCS) is located at Camp Borden, Ontario which is 70 miles North of Toronto and 15 miles West of Barrie. The mailing address is:

JABCS,  
CAMP BORDEN, ONT

## TELEPHONES

7. JABCS Orderly Room, Reception and Despatch, -

CAMP BORDEN 1580 Local 2572

## REPORTING OF STUDENTS

8. Students will report, on the Sunday before the opening day of the course, to Reception and Despatch, Building S-101, Camp Borden. This building is located in the Royal Canadian Army Service Corps (RCASC) area, near the South Barrier of Camp Borden. Commissionaires at the Camp Barriers can provide maps and directions to the JABCS.

## TRANSPORTATION

9. a. RAIL - Candidates travelling by rail should be routed as follows:

(1) From the WEST,

(a) CNR via Train No 2 (Super Continental) to detrain at BARRIE. This is a regular scheduled stop.

(b) CPR via Train No 2 (Canadian) to detrain at ALLISTON. Passengers MUST notify the train conductor who will arrange for the stop.

(2) From the EAST,

(a) CNR via Train No 41, departs TORONTO for ALLANDALE daily except SUNDAY.

(b) CNR via Trains No 47 and 53 departs TORONTO daily to ALLANDALE.

(c) CPR via Trains No 11 and 3 departs TORONTO daily to ALLISTON.

(d) CPR via Train No 309 departs TORONTO for CAMP BORDEN (Bogg Road Station) daily except SUNDAY.

b. AIR - Candidates should arrive SUNDAY at MALTON.

c. Military transportation will meet candidates at ALLANDALE, BARRIE, ALLISTON and MALTON at the passenger terminal PROVIDED ARRIVAL TIMES ARE WIRED TO JABCS ONE WEEK IN ADVANCE.

TRANSPORTATION cont'd

d. POMC - Privately owned motor cars may be kept in Camp only if covered by insurance for public liability and property damage. Proof of insurance must be carried by the owner. Garage facilities are not available.

BAGGAGE

10. Candidates will ensure that their baggage is clearly marked and checked in sufficient time to allow it to arrive with them at point of detrainment.

CLOTHING AND EQUIPMENT

11. Service personnel are governed by the Courses Manual. Civilian candidates will bring normal business dress. Recreational clothing, eg. swim trunks and gym shoes should also be brought.

RECREATIONAL FACILITIES

12. Facilities exist for badminton, golf, tennis, bowling, volleyball, swimming (winter & summer), fishing and all winter sports. Sports equipment is available.

QUARTERS

13. Candidates are quartered by the JABCS and should bring items such as towel, soap, etc. Dining and bar facilities are provided by the RCASC Officers Mess.

LEAVE

14. Week-end leave (from Fri to Sun evening inclusive) may be granted by the Commandant JABCS.

NOTIFICATION OF STUDENTS

15. It is important that despatching units notify the JABCS, by not later than one week before course starting dates, of details of students including mode of transportation, time of arrival and security clearance.

DEPARTMENT OF NATIONAL DEFENCE

# TEMPORARY DOCKET

~~PLACE ON MAIN FILE ONLY~~

**WILSON ACTION COMPLETED**

ARMY

ROUTING				P.A. & B.F. ENTRIES				REGISTRY ONLY	
REFERRED	REMARKS	DATE OF PASS	INITIALS	DATE OF P.A.	INITIALS	DATE OF B.F.	CANCEL B.F.	DATE RECEIVED	Inspected
DSO & F	WITH PAPERS CR	APR 29 1960	mw		A	16 May		MAY 3 - 1960	23A
Self	PER REQUISITION CR	MAY 4 1960							
Notified									

25-782

## INSTRUCTIONS

1. Temporary Dockets are to deal WITH ONE CASE ONLY.
2. T.D.'s NOT to be placed on main file UNLESS Central Registry informed by means of Form D.N.D. 710.
3. T.D. No. together with main file number to be quoted on all correspondence originated.
4. T.D.'s not to be passed from one service to another.
5. Action should be taken as soon as possible in order that main file may be kept up to date. If action cannot be taken within 48 working hrs., B.F. Docket.
6. T.D.'s to be requisitioned, passed, B.F.'d. etc., in the same manner as main files by means of Form D.N.D. 710.

MEMORANDUM

HQ 3241-S40 TD 0120 (DSO&P 5)

30 May 60

Director

Nuclear Defence Staff Officers  
Duties, Training

1. NDSOs are provided in Commands and Areas to act as advisers to GOCs and Area Commanders. A survey has been completed to determine:

- a. which additional headquarters should be provided with Nuclear Defence Staff Officers,
- b. the nature of the duties which can be expected of these officers and
- c. the technical training required to qualify them for the appointment.

2. NDSOs will be required on certain staffs to give advice quickly on nuclear weapons and their effects without the necessity to pass lengthy and complicated messages in answer to queries. It is recommended that the allocation should be as follows:

- a. Army Headquarters - DSO&P  
- DEP
- b. Command Headquarters. It has been suggested that the NDSO employed with the PWC should be supported by a scientist.
- c. Area Headquarters - where the Area Headquarters is responsible for a PWC (ie - Headquarters Manitoba Area), the NDSO should be supported by a scientist.
- d. Target Area Headquarters and/or
- e. Alternate Target Area Headquarters.

3. The NDSO should be capable of providing his Commander with advice involving the non-medical aspects of nuclear weapons effects. At AHQ, Commands and Area Headquarters, he should be able to:

- a. Predict Fallout Sectors.
- b. Solve radiation calculation problems.
- c. Estimate the protective value of structures against fallout radiation.
- d. Forecast the extent of probable damage to utilities, communications, bridges and the usability of thoroughfares.

.../2

- 2 -

3. e. Advise on the technical aspects of warning and meteorological services.
- f. Advise on the National Survival warning system, the nuclear detection system and the fallout reporting system.
- g. Advise on the preparation of exercises involving warning, nuclear effects and other national survival activities.

The NDSO at a Target Area Headquarters, in addition to the functions described above, should be able to:

- a. Instruct military personnel who serve in the primary or alternate target area HQ in reporting, plotting, operating procedures and exercises.
- b. Advise on the training of CA(M) personnel who man Sector Controls.
- c. Liaise with civilian agencies in or adjacent to the Target Area HQ zone of responsibility.

4. The NDSO must have a good working knowledge which will enable him to assess the reliability of information presented to him and he must understand the limits of applicability of the techniques, formulas or models he uses to solve problems. He must not only know what advice to give, but why to give it, and when to modify it. The extent of technical knowledge required to carry out his <sup>four</sup> duties does not extend beyond the subjects listed for the ~~three~~ week course at JABS in Training Standard (copy attached at Annex A) but he must have a good knowledge of Items N 2, N 5, and N 6. The type of activity in which Nuclear Defence Staff Officers will be operating, and presumably, in many cases acting in a supervisory and advisory role, necessitates that he should possess a broad semi-technical knowledge on a number of subjects, including:

- a. The role of the Army at varying levels of command in national survival functions and responsibilities and the role and functions of the Navy, Air Force and Emergency Measures Organization in National Survival.
- b. The NORAD system of reporting enemy air movement, ballistic missile surveillance and prediction, identification and tracking procedures and the essence of the enemy threat and time scale.
- c. The responsibilities of the Army in regard to warning, the extent of coverage, siren programmes and use of emergency broadcast media.
- d. Army emergency communication and relocation responsibilities and plans with particular reference to those networks and establishments under which the warning and/or nuclear detonation, analysis, and fallout reporting elements will operate.
- e. Nuclear effects, fallout prediction, damage assessment, radiological dosage limitations and calculation, recuperability rates from radiation, and other related phenomena.

.../3

- 3 -

- f. A basic knowledge of meteorology including effects on nuclear phenomena, the Canadian and US Weather Services, methods of obtaining data associated with nuclear effects and familiarization with wind prognostication.

5. The trained Nuclear Defence Staff Officer, appointed to the locations, recommended in paragraph 2, with the exception of Army Headquarters appointments, will need a thorough familiarity with the target characteristics in his area of responsibility. This knowledge can be obtained only by considerable personal survey in the area concerned. It will necessitate the appointment of these officers on a full time basis prior to the event.



(VW Bethel)  
Lt-Col  
SO 5



DRAFT

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Document disclosed under the Access to Information Act  
Document divulgué en vertu de la Loi sur l'accès à l'information  
ANNEX A to:  
HQ 3241-S40 TD 0120 (DSO&P 5)  
Dated 2<sup>nd</sup> May 60

JOINT ATOMIC, BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

TRAINING STANDARDS

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

NUCLEAR WARFARE

SERIAL	SUBJECT	STANDARD
N 1	Nuclear Theory	A comprehensive knowledge of: <ul style="list-style-type: none"><li>a. Structure of matter.</li><li>b. Radioactivity.</li><li>c. How nuclear explosions occur.</li><li>d. Typical nuclear weapon construction.</li><li>e. The influence of shielding and distance on point sources of radiation and fallout.</li></ul>
N 2	Effects of Nuclear Weapons	<ul style="list-style-type: none"><li>a. Must have a thorough understanding of the capabilities of nuclear weapons as detailed in TM 23-200, covering scaling of effects, damage criteria and casualties.</li><li>b. Must have a comprehensive knowledge of the effects as detailed in DAP 39-1, and be aware of the differences existing between these two manuals.</li></ul>
N 3	Nuc Warfare Casualties	<ul style="list-style-type: none"><li>a. Must know biological effects of nuclear radiation.</li><li>b. Should know medical problems associated with:<ul style="list-style-type: none"><li>(1) Organization and techniques to care for mass casualties.</li><li>(2) Maintenance of individual radiation exposure levels.</li></ul></li></ul>
N 4	Nuclear Warfare Equipment	Should know: <ul style="list-style-type: none"><li>a. Equipment in use.</li><li>b. Equipment under development.</li><li>c. Scales of issue.</li></ul>
N 5	Operations in Radioactive Areas	Must know: <ul style="list-style-type: none"><li>a. How to use the Radiac Dosage Calculator.</li><li>b. The policy for employment of the armed forces in aid to the civil defence.</li><li>c. Measures which may be adopted to determine the extent of, and mitigate the effects of residual radiation:<ul style="list-style-type: none"><li>(1) Under field conditions,</li><li>(2) On static bases,</li><li>(3) In operations connected with national survival.</li></ul></li></ul>

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- 2 -

TRAINING STANDARDS

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

NUCLEAR WARFARE

SERIAL	SUBJECT	STANDARD
N 6	Detection, Prediction and Radiation Reporting Systems	<p>Must know:</p> <ul style="list-style-type: none"><li>a. The methods of calculating location of ground zero, height of burst and yield of nuclear weapons.</li><li>b. The systems of fallout prediction adopted by the Canadian Armed Forces and Civil Defence.</li></ul>
N 8	Attack Warning System	<p>Must know:</p> <ul style="list-style-type: none"><li>a. The DND responsibilities in survival operations.</li><li>b. Policy for the employment of the armed forces in aid to the civil defence.</li><li>c. Organization, functions and communications of:<ul style="list-style-type: none"><li>(1) The national survival warning system,</li><li>(2) Nuclear detection system,</li><li>(3) Fallout reporting system.</li></ul></li></ul>



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- 3 -

TRAINING STANDARDS

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

BIOLOGICAL WARFARE

SERIAL	SUBJECT	STANDARD
B 1	BW Munitions and Employment	a. Must know likely BW agents and their effects. b. Should know BW munitions and concepts for their employment.

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- 4 -

TRAINING STANDARDS

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

GENERAL SERIES

SERIAL	SUBJECT	STANDARD
G 1	NBCW Policy	Must know: <ul style="list-style-type: none"> <li>a. The national and armed forces policy in respect of NBCW.</li> <li>b. NBCW training policy.</li> </ul>
G 2	NBCW Intelligence	Should know: <ul style="list-style-type: none"> <li>a. Soviet capabilities, training and tactics in NBCW.</li> <li>b. Air and missile threat to Canada.</li> </ul>
G 4	Opening & Closing Addresses	
G 5	Administration	
G 6	Spares	
G 7	Examinations	
G 8	Mathematics	Must know how to use: <ul style="list-style-type: none"> <li>a. Slide rule for multiplication and division.</li> <li>b. Tables for powers of numbers.</li> <li>c. Graphs.</li> <li>d. Trigonometric tables to a standard for the solution of scaling problems, and calculation of height of burst and slant range.</li> </ul>
G 10	Meteorology	Must know: <ul style="list-style-type: none"> <li>a. Applications of meteorology to nuclear warfare, nuclear defence and survival operations.</li> <li>b. Organization of the meteorological services.</li> <li>c. The atmosphere and its general circulation.</li> <li>d. The surface weather map.</li> <li>e. Air masses and fronts.</li> <li>f. Wind.</li> </ul>

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- 5 -

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

TRAINING STANDARDS

GENERAL SERIES

SERIAL	SUBJECT	STANDARD
G 10		<ul style="list-style-type: none"><li>g. Upper level constant pressure charts.</li><li>h. Weather forecasting.</li><li>j. Climatology.</li><li>k. Meteorological abbreviations.</li></ul>

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JOINT ATOMIC, BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL  
SYLLABUS OF TRAINING  
SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

CODE.	SUBJECT	NO of PERIODS	REMARKS
<u>N1</u>	<u>NUCLEAR THEORY</u>		
N1-1	Nuclear Theory	1	a. Structure of matter. b. Isotopes.
N1-2	Radioactivity	1	a. Forms of nuclear radiation.
N1-3	Nuclear Weapon Construction	1	a. Nuclear reactions. b. Mass defect. c. Typical weapon construction.
<u>N2</u>	<u>WEAPONS EFFECTS</u>		
N2-1 to N2-21	Weapons Effects (TM 23-200)	21	a. Capabilities of nuclear weapons. b. Scaling effects of blast, heat and nuclear radiation. c. Casualties and damage criteria.
N2-22 to N2-29	Weapons Effects (DAP 39-1)	8	Comparison of solutions to effects problems with 39-1 and TM 23-200, particularly for such things as fallout safe height of burst.
<u>N3</u>	<u>Nuc W Casualties</u>		
N3-1 ) N3-2 )	Medical aspects of Nuclear Warfare	2	Types of casualties; casualty estimation; nuclear radiation casualties; biological effects; treatment; tolerance doses; medical records; medical resources in nuclear warfare. Films 31064 and TF 8-2675.



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SYLLABUS OF TRAINING

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

<u>CODE</u>	<u>SUBJECT</u>	<u>No of PERIODS</u>	<u>REMARKS</u>
<u>N4</u>	<u>Nuc W Equipment</u>		
N4-1 )	Nuc W Equipment	2	Equipment in use and under development. Scales of issue.
N4-2 )			
<u>N5</u>	<u>Operations in Radioactive Areas</u>		
N5-1	Monitoring and Survey	1	Lecture/demonstration of:.
			a. Methods and reporting procedure from air and ground.
			b. Plotting centre operations.
N5-2 )			
N5-3 )	Radiation Dosage Calculator	3	To include problems.
N5-4 )			
N5-5 )	Exercise TUMBLETOWN	4	a. Effects of high yield weapon on a Canadian city. Practical exercise by students.
N5-6 )			
N5-7 )			b. Discussion of employment of mobile support column.
N5-8 )			
N5-9 )	Shelter Evaluation	2	Lecture and practical period on method of evaluating protective factors of buildings.
N5-10)			

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- 3 -

SYLLABUS OF TRAINING

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
N6	<u>DETECTION, PREDICTION AND RADIATION REPORTING SYSTEMS</u>		
N6-1 ) to ) N6-5 )	Determination of GZ, NOB and Yield	5	a. Methods of determining GZ, NOB and yield. b. Need for reporting organisation. One period lecture. Four periods on practical problems.
N6-6 ) to ) N6-16 )	Fallout Prediction	11	a. One period lecture on Army system. b. Sample classroom problem. c. Assignment problem. d. Briefing on other systems in use.
N8	<u>ATTACK WARNING SYSTEM</u>		
N8-1	DND responsibilities	1	a. Basic assumptions for national survival planning. b. Concept of national survival operations. c. DND responsibilities. d. Policy for employment of armed forces, in aid of civil defence.



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- 4 -

SYLLABUS OF TRAINING

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
NS-2 ) NS-3 )	Warning and Reporting Systems	2	Organization, functions, and communications of a. National Survival attack warning system. b. Nuclear detection system. c. Fallout reporting system.

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SYLLABUS OF TRAINING

SPECIAL NUCLEAR DEFENCE STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
<u>B1</u>	<u>BIOLOGICAL WARFARE</u>		
B1-1 )	BW Munitions, Agents and	2	Lecture and films.
B1-2 )	Employment		



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- 6 -

SYLLABUS OF TRAINING

SPECIAL NUCLEAR STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
<u>G1</u>	<u>NBCW POLICY</u>		
G1-1	NBCW Policy	1	Lecture (combined with Commandant's opening address).
<u>G2</u>	<u>NBCW INTELLIGENCE</u>		
G2-1 )	NBCW Intelligence	3	To include air and missile threat.
G2-2 )			
G2-3 )			
<u>G4</u>	<u>OPENING &amp; CLOSING ADDRESSES</u>	2	
<u>G5</u>	<u>ADMINISTRATION</u>		
G5-1	Indoctrination and Photo	1	
G5-2	Issue of Equipment	1	
G5-3	Visits Briefing	1	
G5-4	Return of Equipment	1	
G5-5	Pay and Accounts Clearance	1	
G5-6	Course Reports and Transport Warrants	1	

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- 7 -

SYLLABUS OF TRAINING

SPECIAL NUCLEAR STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
<u>G6</u>	<u>SPARES AND STUDY</u>		
G6-1 ) to ) G6-10 )	Spares	10	At disposal of Course Officer.
G6-11	Course critique	1	
<u>G7</u>	<u>EXAMINATIONS</u>		
G7-1 ) to ) G7-9 )	Practical problems associated with Nuclear Staff Officers' problems	9	Continuous narrative defining situations requiring solutions to: a. Determination of GZ, HOB and Estimation of yield. b. Fallout prediction. c. Weapons effects. d. Miscellaneous nuclear staff officers' problems.
<u>G8</u>	<u>MATHEMATICS</u>		
G8-1 ) to ) G8-9 )		9	To include: a. Basic arithmetic review - 1 period b. Slide rule (multiplication, division and powers of numbers) 5 periods. c. Trigonometry and graphs



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SYLLABUS OF TRAINING

SPECIAL NUCLEAR STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
			<ul style="list-style-type: none"> <li>c. Relation of wind and isobars.</li> <li>d. Definitions of air masses and fronts.</li> <li>e. Three dimensional structure.</li> <li>f. Depiction on the surface weather map.</li> <li>g. Typical air mass and frontal weather.</li> <li>h. Weather map symbols.</li> </ul>
G10-4	General Circulation of Atmosphere	1	<ul style="list-style-type: none"> <li>a. Causative factors.</li> <li>b. Circulation patterns, surface, troposphere and stratosphere.</li> <li>c. Seasonal trends.</li> </ul>
G10-5 ) G10-6 )	Wind	2.	<ul style="list-style-type: none"> <li>a. Geostrophic and gradient wind, pressure gradient forces, coriolis force and centrifugal force.</li> <li>b. Variation of wind with altitude and thermal winds.</li> <li>c. Surface friction and topograph effects, local winds.</li> <li>d. The jet stream.</li> <li>e. Measurement of wind velocity; pibals, rawins; instrumentation, present and future.</li> <li>f. Reporting codes and plotting procedures.</li> </ul>

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- 10 -

SYLLABUS OF TRAINING

SPECIAL NUCLEAR STAFF OFFICERS COURSE

CODE	SUBJECT	No of PERIODS	REMARKS
G10-7	Pressure charts and weather forecasting	1	<ul style="list-style-type: none"> <li>a. Construction of upper level constant pressure charts.</li> <li>b. Contours, streamlines and isotachs.</li> <li>c. Determination of wind velocity aloft.</li> <li>d. International radiosonde and rawin network.</li> <li>e. Movement of pressure systems, surface and aloft.</li> <li>f. Elementary short range weather and wind forecasting.</li> <li>g. Basic for extended and long-range forecasts.</li> <li>h. Preparation of wind data for PWC.</li> <li>j. Typical working day in a district forecast office.</li> </ul>
G10-8	Climatology		To include meteorological abbreviations. Use naval training film to confirm.

DEPARTMENT OF NATIONAL DEFENCE

MINUTE SHEET

Referred to

REMARKS

To be signed in full showing Appointment, Telephone Number & Date

505

Nuclear Staff Officers

Duties and Training

1. Agree with training required, as per your para 1, but strongly disagree that we should aim at producing "a special breed of cat."
2. We feel that NSO at Command and Area should be a staff trained officer with the benefit of additional background you suggest, and that it should be emphasized that he will act as adviser to Commander and staff at various HQ concerned. The normal staff at the HQ should be actively involved with survival matters, and get their "technical" assistance from the NSO. If we agree that the 3 week course at JABS is adequate training for the NSO, surely the task is not all that "technical" either.
3. Let us remember that all G Staff officers at each HQ are going to be involved with fighting the survival battle — Therefore we should not encourage a sole member of a special breed of cat at each HQ who can advise the Commander.

000115

505-3



# M E M O R A N D U M

HQ 3241-S40 TD 0120  
(DSO&P 2)

26 May 60

SO 5

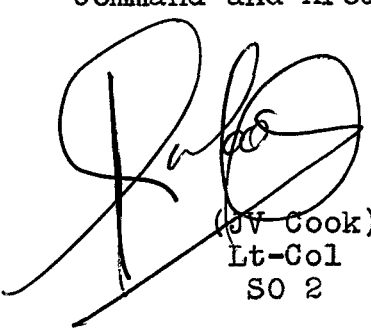
## Nuclear Defence Staff Officers

1. SO 2 concurs generally in the duties of the Nuclear Defence Staff Officer and notes that the duties are technical in nature rather than scientific.

2. The suggestion that scientific support is needed, was made, I think by this section. At AHQ the services of DRB are always available, and through DRB, AHQ can obtain advice from NRC and other agencies. SO 2 considers that in both peace and war similar scientific support is needed in each province. I would suggest that the simplest solution is to arrange for the appointment of a suitable "nuclear scientific adviser" from the staff of a university in each province. In my view, this person should proceed to the emergency HQ in war.

3. Other detailed comments are:

- a. Para 2c. If it is felt that a scientist is required at the Command HQ then there should be one at the Area HQ. One scientist for each BRIDGE site. *3, 4 ✓*
- b. Para 3. I feel this para should be broken in two parts, ie duties of an NDSO at AHQ, Command and Area HQ and duties of an NDSO at Target Area HQ. Items 3e, 3f, 3g are applicable to Target Areas only. *agree ✓*
- c. Para 3f & 3k. Should start as follows: "Advise on the". *agree ✓*
- d. Para 4a. Should include the role and functions of RCAF, RCN and EMO in national survival. *OK ✓*
- e. Para 5 line 3. Add after Army Headquarters, "Command and Area HQ". *N 6*

  
(J.V. Cook)  
Lt-Col  
SO 2



*Line*

DRAFT  
MEMORANDUM

HQ 3241-S40 TD 0120 (DSO&P 5)

May 60

Director

Nuclear Staff Officers  
Duties Training

1. NSOs are provided in Commands and Areas to act as advisers to GOCs and Area Commanders. A survey has been completed to determine:
  - a. which additional headquarters should be provided with Nuclear Staff Officers,
  - b. the nature of the duties which can be expected of these officers and
  - c. the technical training required to qualify them for the appointment.
2. NSOs will be required on certain staffs to give advice quickly on nuclear weapons and their effects without the necessity to pass lengthy and complicated messages in answer to queries. It is recommended that the allocation should be as follows:
  - a. Army Headquarters - DSO&P  
- DEP
  - b. Command Headquarters. It has been suggested that the NSO employed with the PWC should be supported by a scientist.
  - c. Area Headquarters.
  - d. Target Area Headquarters and/or
  - e. Alternate Target Area Headquarters.
3. The NSO should be capable of providing his Commander with advice involving the non-medical aspects of nuclear weapons effects. In detail, he should be able to:
  - a. Predict fallout sectors.
  - b. Solve radiation calculation problems.
  - c. Estimate the protective value of structures against fallout radiation.
  - d. Forecast the extent of probable damage to utilities, communications, bridges and the usability of thoroughfares.
  - e. Instruct military personnel who serve in the primary or alternate target area HQ in reporting, plotting, operating procedures and exercises.

.../2

- 2 -

3. f. Train CA(M) personnel who man Sector Controls.
- g. Liaise with civilian agencies in or adjacent to the Target Area HQ zone of responsibility.
- h. Advise on the technical aspects of warning and meteorological services.
- j. Advise on the National Survival warning system, the nuclear detection system and the fallout reporting system.
- k. Prepare exercises involving warning, nuclear effects and other national survival activities.

4. The NSO must have a good working knowledge which will enable him to assess the reliability of information presented to him and he must understand the limits of applicability of the techniques, formulas or models he uses to solve problems. He must not only know what advice to give, but why to give it, and when to modify it. The extent of technical knowledge required to carry out his duties does not extend beyond the subjects listed for the three-week course at JABS in Training Standards (copy attached at Amex A) but he must have a good knowledge of Items N 2, N 5, and N 6. The type of activity in which Nuclear Staff Officers will be operating, and presumably, in many cases acting in a supervisory and advisory role, necessitates that he should possess a broad semi-technical knowledge on a number of subjects, including:

- a. The role of the Army at varying levels of command, in national survival functions and responsibilities.
- b. The NORAD system of reporting enemy air movement, ballistic missile surveillance and prediction, identification and tracking procedures and the essence of the enemy threat and time scale.
- c. The responsibilities of the Army in regard to warning, the extent of coverage, siren programmes and use of emergency broadcast media.
- d. Army emergency communication and relocation responsibilities and plans with particular reference to those networks and establishments under which the warning and/or nuclear detonation, analysis, and fallout reporting elements will operate.
- e. Nuclear effects, fallout prediction, damage assessment, radiological dosage limitations and calculation, recuperability rates from radiation, and other related phenomena.
- f. A basic knowledge of meteorology including effects on nuclear phenomena, the Canadian and US Weather Services, methods of obtaining data associated with nuclear effects and familiarization with wind prognostication.

5. The trained Nuclear Staff Officer, appointed to the locations, recommended in paragraph 2, with the exception of Army Headquarters appointments, will need a thorough familiarity with the target characteristics in his area of responsibility. This knowledge can be obtained only by considerable personal survey in the area concerned. It will necessitate the appointment of these officers on a full time basis prior to the event.

DEPARTMENT OF NATIONAL DEFENCE

MINUTE SHEET

Referred to

REMARKS

To be signed in full showing Appointment, Telephone Number & Date

D2029

Attd on the big standards of  
NBC8 as promised

(Alan  
Hay Ballwin)

505  
Rome  
B 2088

Johni Apr  
to ANT

20 Apr 60.





DEPARTMENT OF NATIONAL DEFENCE  
CANADA

IN REPLY PLEASE QUOTE

DRBS 161-17 (DAR(CD))

## DEFENCE RESEARCH BOARD

Referred to	DSO-17
MAY 9 1960	
File No.	3241-190
Cdgd to	

Ottawa, Ontario,  
9 May, 1960.

DSO&P

Attention: Lt. Col. G.P. Marriott

### Nuclear Staff Officers Technical Training

1. Reference HQ 3241-S40 (DSO&P 5b) of 28 April 60.
2. In my opinion the competence of a nuclear staff officer will be measured by the degree to which he can assess the reliability of the information he derives from the various bibliographical aids provided for carrying out his task in relation to target characteristics, and other modifying factors such as the meteorological ones.
3. He must understand the limits of applicability of whatever techniques, formulas, or models he uses to solve the problems at hand.
4. This implies a knowledge of factors, both inherent and extraneous, which may cause anomalous weapons effects or deviations from standard patterns of results.
5. The extent of technical knowledge required to carry out the duties does not extend beyond the subjects listed in "Training Standards" but the degree of familiarity required, especially with items N2, N5 and N6 is considerable. The degree of knowledge might perhaps best be developed by conducting a series of seminars, post-graduation from the JABCD course. The aim should be to develop officers who not only know what advice to give, but why they give it, and when to modify it.
6. Incidentally I should be inclined to describe (under N1 of Training Standards) the need as a "good working" rather than a "comprehensive" knowledge. However, this is just a matter of point of view.

*E. E. Marney*  
for Chairman, Defence Research Board.

EEM/IMH

MEMORANDUM

HQ 3241-S40 (DSO&P 1a)

3 May 60

DEP

Nuclear Staff Officers  
Duties

1. May a reply be received to our HQ 3241-S40 (DSO&P) dated 25 Apr 60, please.

*James E. Kenyon*  
for (LE Kenyon)  
Colonel  
DSO&P

/2-5892/mb

BF 10 May 60  
Stam  
So 1a

Telephone message Lt Col Bond/Mrs Bloxland  
of 3 May 60.

DEP comments telephoned to  
Col Vincent and incorporated  
in SO4's reply

*MB*

MEMORANDUM

CAORE/C/3150-50/46

OTTAWA, Ontario.  
28 Apr 60.

DSO&P

Nuclear Staff Officers  
Duties

<b>DSO &amp; P</b>
APR 29 1960
File <u>3241-S40</u>
Referred To... <u>DW</u>

1. With reference to your HQ 3241-540 (DSO&P) of 25 Apr 60, it is considered that NSOs should be on the staffs of all HQs, including Target Area and alternate Target Area HQs. This would permit advice on nuclear weapons and their effects to be given quickly and would minimize the need for transmitting lengthy and complicated messages which would often be necessary to answer queries about effects.
2. It is also felt that NSOs should have some knowledge of the biological effects of radiation, in addition to the subjects mentioned in your para 5.

*R.W. Rae*  
for H. H. Watson  
Director  
Canadian Army Operational  
Research Establishment.

LJB/6-7892/cr

M E M O R A N D U M

BDF SO 3200-91/S48  
(DSO&P 2)

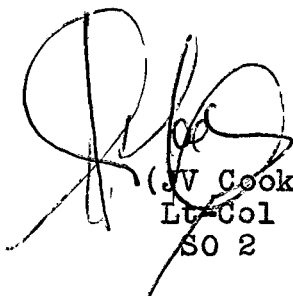
27 Apr 60

Director

Nuclear Staff Officers

1. My suggestions for the deployment of NSOs are based on the assumption that the officers filling these positions are technicians, and that scientific advice should come from suitably qualified personnel.
2. NSOs should therefore be located at PWCs, Target Area HQs and at filter centres. I feel that the NSO at the PWC should be supported by a scientist.
3. Duties of NSOs should be in the technical aspects of warning, fallout prediction, damage assessment etc, based in all cases on prescribed methods and data.

cl  
BPR  
for 18 May 60

  
(J.V. Cook)  
Lt-Col  
SO 2

L E KENYON  
COLONEL  
DSO & P

MAY 2 1960

M E M O R A N D U M

HQ 3241-S40 (DSO&P 5b)

28 Apr 60

DSO&P

Nuclear Staff Officers  
Duties

1. Reference is made to your memorandum HQ 3241-S40 (DSO&P) dated 25 Apr 60 requesting suggestions on the provision and duties of Nuclear Staff Officers.
2. Nuclear Staff Officers would be desirable at both primary and alternate Target area HQs.
3. Suggested terms of reference for these Nuclear Staff Officers at Target Area HQ are as follows:
  - a. Advice to the Comd on all nuclear aspects of Survival Operations to include:
    - (1) The organization, functions and communications of:
      - (a) The National Survival Warning System.
      - (b) Nuclear Detection System.
      - (c) Fallout Reporting System.
    - (2) The organization and functions of the meteorological services and the application of meteorology to nuclear warfare, nuclear defence and survival operations.
    - (3) Fallout prediction.
    - (4) Damage assessment.
    - (5) Radiological dosage calculations.
  - b. Responsibility for the nuclear training of all military personnel designated to serve in the primary or alternate target area HQ ie - reporting, plotting, standard operating procedures, exercises etc.
  - c. Responsibility for training the CA(M) personnel who would man any Sector Controls within the area.
  - d. Responsibility for liaison with assisting civilian agencies in or adjacent to the Target Area HQ zone of responsibility.

(OK Langley)  
A/GSO 1 - SO 5



# CONFIDENTIAL

## M E M O R A N D U M

HQC 3241-S40 (DSO&P 4)

28 Apr 60

Director

### Nuclear Staff Officers Duties

1. Attention is invited to DSO&P letter of 25 Apr 60 concerning a survey of duties of Nuclear Staff Officers.
2. Background history pertinent to the initial provision of Nuclear Staff Officers may be of interest; viz:
  - a. In preliminary examination of the implications associated with the establishment of the National Survival Attack Warning System it was envisaged that the additional duties which would ensue at Command and/or Area HQs would follow along two channels:
    - (1) Supervision of the operation of Provincial Warning Centres, liaison with provincial, municipal and other agencies in connection with warning, and planning and implementation of the extension of the warning system including radio and siren coverage to lower levels of population.
    - (2) Organization within Commands and/or Areas elements of a nuclear detonation and reporting system. Assessment of probable nuclear effects as a result of probable enemy activity over the areas of responsibility. Provision of technically qualified staff to assume the position of a nuclear analyst in an emergency.
  - b. The MGS was of the opinion that two staff officers were, in fact, the minimum necessary to cater to these functions in peacetime in the Commands and/or Areas HQ manning PWCs. These two staff officers should act as advisors to their Commands in these fields but in order to ensure the availability of this specialized knowledge not more than one of the two should be absent from the immediate area of the PWC at any one time.
  - c. Subsequent to assessment of the permissible manpower to be made available for the operation of the warning system it was directed that only one officer would be added to the appropriate establishments and that any additional staff would be found from within existing resources at applicable Commands and/or Areas. The term "Nuclear Staff Officer" was adopted primarily

.../2.

# CONFIDENTIAL

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# CONFIDENTIAL

- 2 -

2. c. as a means of justifying the addition of one major to the establishments concerned and it was assumed that other officers on the HQ Staffs would be "cross trained".
  - d. Since these positions have been authorized and filled, discussions with Commands and with some of the appointees concerned indicate that they are being employed on a wide number of duties, including:
    - (1) Supervision of Provincial Warning Centres.
    - (2) Calculation of Predicted Fallout Plots.
    - (3) Surveying warning, siren and radio broadcasting needs.
    - (4) Liaison with Provincial CD and Regional EMO authorities.
    - (5) Instruction of HQ Staffs on warning, nuclear effects and fallout prediction.
    - (6) Preparation of exercises involving warning, nuclear effects and other national survival activities.
    - (7) Lecturing to military, governmental and public organizations.
    - (8) Acting as G Staff Officers on all subjects pertaining to National Survival.
    - (9) Other duties defined by their Commanders.
  - e. The various aspects of these duties would indicate that GOCs or Area Commanders do not have a common target for the employment of their Nuclear Staff Officers, and it is probably most difficult, at least during organizational phases, for AHQ to be definitive in respect to their actual terms of reference.
3. In the initial provision of staff for the operation of the warning allocation of NCOs as assistants was not approved. Since that time two Commands have submitted requests for specific allocation of NCOs for such duties and in the case of Quebec and Central Command the AEC has authorized some small additions.
4. Within the proposal put forward by the Army relating to the establishment of a national NDFRS it has been considered that further staff augmentation is necessary, and subject to approval of CCEP in this regard, the personnel situation will be as detailed at Annex A.
5. Subject to approval to the Army's proposed national NDFRS, considerable effort will be required at Command and Area levels in respect to organization, equipping, training, coordination of traffic

.../3.

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- 3 -

5.

routing and communications for the system. The development of the system at the lower levels will be in phase with the extension of the warning system, including siren installations and the use of radio broadcast stations. Current experience would indicate that the additional personnel proposed would be fully used by Commands and Areas on these tasks during the organizational periods.

6. The type of activity in which Nuclear Staff Officers will be operating, and presumably, in many cases acting in a supervisory and advisory role, necessitates that he should possess a broad semi-technical knowledge on a number of subjects, including:

- a. The role of the Army at varying levels of command, in national survival functions and responsibilities.
- b. He should undergo training and familiarization in the following specific fields:
  - (1) The NORAD system of reporting enemy air movement, ballistic missile surveillance and prediction, identification and tracking procedures and the essence of the enemy threat and time scale.
  - (2) The responsibilities of the Army in regard to warning, the extent of coverage, siren programmes and use of emergency broadcast media.
  - (3) Army emergency communication and relocation responsibilities and plans with particular reference to those networks and establishments under which the warning and/or nuclear detonation, analysis, and fallout reporting elements will operate.
  - (4) Nuclear effects, fallout prediction, damage assessment, radiological dosage limitations and calculation, recuperability rates from radiation, and other related phenomena.
  - (5) A basic knowledge of meteorology including effects on nuclear phenomena, the Canadian and US Weather Services, methods of obtaining data associated with nuclear effects and familiarization with wind prognostication.

7. In examination of the needs for Nuclear Staff Officers, concerned with Army activities assigned under PC 656/59 the following agencies are considered to be primary areas of employment:

- a. Army Headquarters - (DSO&P & DEP)
- b. Command Headquarters -
- c. Area Headquarters -

.../4.

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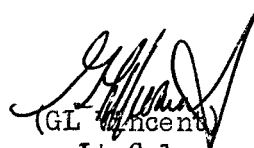
- 4 -

7. d. Major Re-location Sites -

e. HQs of Forces Allocated to Target Areas -

8. In considering the level to which officers selected for employment in this field should be trained there is reason to question whether or not one standard is necessary. I consider that officers assigned to AHQ, Comd HQs and major relocation sites as primary advisors should have a most comprehensive background. This would include the possibility for the attendance of such officers at one of the longer NBCW courses in the USA or the UK. The training of personnel for other locations can, I feel, be adequately catered to in Canada.

9. SO 4 would appreciate the opportunity of discussing this subject further at your convenience.

  
(G. L. Vincent)  
Lt-Col  
SO 4

CONFIDENTIAL

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ANNEX A  
TO HQC 3241-S40 (DSO&P 4)  
DATED 28 APR 60

ATTACK WARNING AND NUCLEAR DETONATION SYSTEMS

PERSONNEL ALLOCATION

INCLUDING NDFRS PROPOSAL

Location	Authorized Sep 59	Authorized Apr 60	NDFRS Proposal	Total
(a)	(b)	(c)	(d)	(e)
Nfld Area	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
HQ Eastern Comd	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
NB Area	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
Eastern Quebec Area	1 Officer	2 NCOs	1 Officer 1 NCO	2 Officers 3 NCOs
HQ Quebec Comd	1 Officer	2 NCOs	1 Officer 1 NCO	2 Officers 3 NCOs
HQ Central Comd	1 Officer	3 NCOs	1 Officer 1 NCO	2 Officers 4 NCOs
Central Ontario Area	-	-	1 Officer 1 NCO	1 Officer 1 NCO
HQ Man Area	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
HQ Sask Area	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
HQ Alta Area	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
HQ Western Comd	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
HQ BC Area	1 Officer	-	1 Officer 1 NCO	2 Officers 1 NCO
AHQ	-	-	2 Officers	2 Officers
TOTAL	11 Officers	7 NCOs	14 Officers 12 NCOs	25 Officers 19 NCOs

CONFIDENTIAL

MEMORANDUM

HQ 3241-S40 (DSO&P)

25 Apr 60

Nuclear Staff Officers  
Duties

1. It is desired to determine the number of appointments and the training necessary for Nuclear Staff Officers (NSO) for Survival Operations.
2. NSOs are needed at Command HQs and Area HQs where there are also manned PWCs.
3. a. Is one required at each Target Area HQ? *NOT as such but an offer who is served in the field*  
b. Is one required at each alternate Target Area HQ? *NO*
4. What other HQs require NSOs? *nil*
5. What tasks should NSOs be capable of performing? (eg Fallout prediction, damage assessment, radiological dosage calculations, etc)
6. Your suggestions are requested by 28 Apr 60.
7. After this preliminary survey it is proposed to request DEP to provide recommendations for training.

*LE Kenyon*  
(LE Kenyon)  
Colonel  
DSO&P

SO 1 )  
2 )  
3 ) 3 copies each  
4 )  
5 )

CACRE  
DEP  
DRB (Attn Dr Massey)

② *SOB*  
*The time has come to ensure that all QSOs, who will be employed in a survival operation, are trained in all tasks not listed in para 5. The training required is NOT difficult to arrange. Perhaps now is the time to build the special breed, the NSO, and ensure that all QSOs have a common trade.*

*SOB*  
SO311  
26 Apr 60

OUR FILE REF. DRBS 161-17.....  
DAR(CD)



DEPARTMENT OF NATIONAL DEFENCE  
DEFENCE RESEARCH BOARD

1327

Ottawa, Ontario,  
27 April 1960.

DSO & P  
"B" Bldg.

Nuclear Staff Officer's  
Duties

Referred to

APR 27

File No.

Cred to

1. Reference HQ 3241- S40 (DSO & P) dated 25-April-60.
2. Basically the NSO should be capable of providing his Commander with such advice as is required involving the non-medical aspects of nuclear weapons effects. Knowing the conditions of attack, he should be able to forecast approximately the blast, thermal, and radiation results for both early and intermediate terms, but not necessarily long term effects.
3. In detail, he should be able to:
  - (a) Predict fallout sectors.
  - (b) Solve radiation calculation problems.
  - (c) Estimate the protective value of structures against fallout radiation.
  - (d) Forecast extent of probable damage to utilities, communications, bridges and the usability of thoroughfares.
4. I believe there should be a NSO at Target Area HQ, with an alternate, because part of his stock in trade will be a thorough familiarity with target characteristics which can be obtained only by considerable personal survey in the area concerned.

*E. G. Macey*  
for Chairman, Defence Research Board.


MEMORANDUM

HQ 3241-S40 (DSO&P)

25 Apr 60

Nuclear Staff Officers  
Duties

1. It is desired to determine the number of appointments and the training necessary for Nuclear Staff Officers (NSO) for Survival Operations.
2. NSOs are needed at Command HQs and Area HQs where there are also manned PWCs.
3. a. Is one required at each Target Area HQ? ✓  
b. Is one required at each alternate Target Area HQ? ✓
4. What other HQs require NSOs?
5. What tasks should NSOs be capable of performing? (eg  
Fallout prediction, damage assessment, radiological dosage  
calculations, etc)
6. Your suggestions are requested by 28 Apr 60.
7. After this preliminary survey it is proposed to request DEP to provide recommendations for training.

  
(IE Kenyon)  
Colonel  
DSO&P

SO 1 )  
2 )  
3 ) 3 copies each  
4 )  
5 )

CACRE  
DEP  
DRB (Attn Dr Massey)



MEMORANDUM

3241-540  
HQ 3310-04/39 (MT 5B)  
EDF 5-2-0-8

29 Apr 60

DSO&P

Attention: Lt Col Marriott

NBC 8 - Nuclear Defence Staff Officers Course  
Course Critique

1. Attached is one copy of the course critique of marginally noted course.
2. It is proposed to convene a meeting in the near future to decide what changes to the syllabus are required.

*signed by Col Dare*  
*Capt Rountree*

(MR Dare)  
Colonel

Director of Military Training

MRJR/gaw

CR PA IR 3241-S40 (DSO&P 5b)

ARMY HEADQUARTERS  
28 Apr 60

Directorate of Atomic Research  
Civil Defence Section  
Defence Research Board

Attention: Dr EE Massey

Nuclear Staff Officers  
Technical Training

1. Nuclear Staff Officers have been provided on the establishments of Army commands and areas, to act as advisors to General Officers Commanding and Area Commanders.

2. We are trying to determine what, if any, technical training should be given to these officers to qualify them for carrying out their tasks.

3. Their specific terms of reference will vary to some extent in accordance with the wishes of their commanders. However, it may be assumed that their duties will include the following:

a. Advice to General Officers Commanding or Area Commanders on all nuclear aspects of survival operations to include:

(1) The organization, functions and communications of

(a) The National Survival Warning System.

(b) Nuclear Detection System.

(c) Fallout Reporting System.

(2) The organization and functions of the meteorological services and the application of meteorology to Nuclear Warfare, Nuclear Defence and Survival Operations.

(3) Fallout areas (Plotting from Nuclear Detonation Reports and Meteorological Reports).

(4) Intensity of radiation (from Nuclear Detonation Reports).

(5) Danger factors to personnel in specific areas.

(6) Time and space estimates in relation to movement of fallout (from Meteorological Reports).

b. Responsibility for the nuclear training of all military personnel who will be required to serve in the Provincial Warning Centre (PWC) (Comd) or Primary Detonation Reporting Agencies (PDRA) (Areas), i.e. reporting, plotting, standard operating procedures, exercises, etc.

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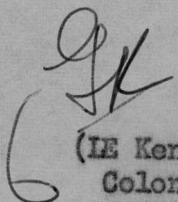


- 2 -

3. c. Responsibility for the organization and function of the military aspects of PWCs (Comd) and/or PDRAs (Area).
- d. Responsibility for liaison with the civilian agency responsible for the efficient operation of the Nuclear Detonation and Fallout Reporting System within the Command or Area.

4. In addition to their normal service and staff training background, each of these officers will attend a three week course at the Joint Atomic Biological and Chemical Defensive Warfare School at Camp Borden, Ontario. The subject matter to be taught on this course is shown on the Training Standards attached.

5. To assist us in planning subsequent training programmes for Nuclear Staff Officers, it would be very helpful if you could comment on the extent of the technical knowledge which you consider desirable in this role.

  
(IE Kenyon)  
Colonel  
DSO&P

CHD/6-6755/bb

## MESSAGE FORM

FOR COMMCEN/SIGNALS USE

FILE HQ 3310-84/J9

NUMBER (MT 5B)

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <i>6/2000 4/160</i>		MESSAGE INSTRUCTIONS	
FROM <b>CANARMY</b>						PREFIX <b>GR</b>	
TO <b>JADCS CAMBORD</b>						SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>	
INFO						ORIGINATOR'S NUMBER <b>TRG 879</b>	

REF A 145 DATED 5 APR. FOR CAPT ROMHELD. FOR VISIT TO ADC NO  
DISTINCTION IS MADE BETWEEN SECRET AND TOP SECRET. ~~THIS~~ THUS  
IMMATERIAL WHETHER THERIAULTS CLASSIFICATION IS SECRET OR TOP  
SECRET

PAGE OF PAGES		REFERS TO MESSAGE				DRAFTER'S NAME <b>RHJR/pl</b>				OFFICE		TEL.	
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>											
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE <i>(MR DARE) COLONEL</i> DMT		

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF S43 (REV 3/59)  
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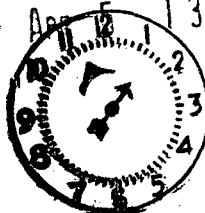
FM JNBĈS CAMP BORDEN

TO CANARMY

BT

MAR 5 - '60 PM

APR 5 13 44 '60



APR 5 13 46 260

DEPARTMENT OF MILITARY TRAINING  
OTTAWA

DMT ①

U N C L A S S I F I E D A145 REURTEL TRG 764 DATED 23 MAR 60 REFERS  
SECURITY CLEARANCE FOR MR EG SHERRING CD COLLEGE ARNPRIOR TOP SECRET  
AND MR P THERIAULT PROVINCIAL LIAISON OFFICER SECRET. PLEASE CONFIRM  
AND TREAT AS URGENT

BT

CFN ~~A145~~ TRG 764 23 60

05/1339Z APR RAEPB

② Replied to W2d 60W

RESTRICTED

IN REPLY PLEASE QUOTE

No. JABCS/3310-8



31 60 PM

Department of National Defence

CANADA



ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ontario

29 Mar 60

DIRECTORATE OF INTELLIGENCE  
OTTAWA

Army Headquarters  
Department of National Defence  
OTTAWA Ontario

①  
Attention: DMT (MT-5)

NBC 8 - Nuclear Defence Staff Officers Course  
Security Clearance

Referred to... *DMT*  
MAR 31 1960  
File No. *3310-84/99*  
Chgd to... *DMT 30.3.60*  
*1/11*

1. Reference telecon Capt Rowntree - Capt Romhild  
dated 28 Mar 60.

2. Attached as Annex A is nominal roll of course  
personnel and DS with their Security Classification, who  
will be visiting CAC and ADC on 11 Apr 60.

BDF ② File with and letter to  
ABC Sr Hubert.

(KE Grant)  
Commander RCN  
Commandant

RESTRICTED



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ANNEX A  
to JABCS/3310-8  
dated Mar 60

NUCLEAR DEFENCE STAFF OFFICERS COURSE

28 Mar 60 to 15 Apr 60

NUMBER	RANK	NAME	UNIT	SECURITY CLASSIFICATION
ZA 3129	Maj	ASJ Bake	AHQ(Br of the GS) DMI, Ottawa Ont	Top Secret
ZD 2493	Maj	NA Buckingham	HQ NB Area, Fredericton NB	Top Secret
ZB 3130	Maj	PM Burger	HQ Eascom, Halifax NS	Secret
ZC 317	Maj	EHP Garneau	HQ Quecom, Montreal Que	Top Secret
ZK 3346	Maj	JL Hunter	HQ Sask Area, Regina Sask	Top Secret
ZB 3164	Maj	FR Huxtable	AHQ(Br of the QMG) D Wks, Ottawa Ont	Top Secret
ZU 1053	Maj	CV Lilley	HQ BC Area, Vancouver BC	Top Secret
ZB 121	Maj	JW McClennan	HQ Cencom, Oakville Ont	Top Secret
ZD 2707	Maj	FH Milledge	HQ East Ont Area, Kingston Ont	Top Secret
ZC 2841	Maj	CHA Spencer	HQ Camp Gagetown, Gagetown NB	Secret
ZM 1103	Maj	MI Walton	HQ Calgary, Calgary Alta	Secret
ZA 3357	Maj	WH Willis	HQ Man Area, Winnipeg Man	Secret
ZD 575	Maj	JAO Woodcock	HQ East Que Area, Quebec Que	Top Secret
ZB 4209	Capt	WT Boulton	HQ West Ont Area, London Ont	Secret
ZB 4541	Capt	JG Henderson	AHQ(Br of the QMG) DQOP, Ottawa Ont	Secret
ZM 9796	Capt	ND MacEachern	AHQ(Br of the GS) DSO&P, Ottawa Ont	Secret
	Mr	EG Sherring	Civil Defence College, Arnprior Ont	Top Secret
	Mr	P Theriault	Privy Council, Ottawa Ont	Secret
ZE 124	Maj	RE Newton	JABCS, Camp Borden Ont	ZED
O-4182	Lt	CE Bandy	JABCS, Camp Borden Ont	ZED
ZG 2777	Capt	JG Moore	JABCS, Camp Borden Ont	ZED
ZC 3086	Capt	HLJ Corbett	JABCS, Camp Borden Ont	ZED
202632	F/L	CC Unger	JABCS, Camp Borden Ont	ZED

000139

Our file ref. JABCS/3310-8



DEPARTMENT OF NATIONAL DEFENCE

ARMY

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ont

①  
Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

Attention: D Pers

Attendance Figures

Nuclear Defence Staff Officer Course

28 Mar 60
Shers
MAR 30 1960
File No 3310-84/89
Chgd to D.M.T. 11-360
Vol 11

1. The attendance figures for the Nuclear Defence Staff Officer Course (28 Mar 60 to 15 Apr 60) are as follows:

RCN	-	0
CA(R)	-	16
CA(M)	-	0
RCAF	-	0
CIV	-	2

2. Nominal roll attached.

② Pers Ruse  
Pers Rca  
Pers Rce  
Pers Rsc  
Pers RASC  
Pers Risc  
D.M.T.  
So note & P.A. pers

(K E Grant)  
Commander RCN  
Commandant

D PERS COORD 2  
31 MAR 1960

At: 1

000140

JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

NUCLEAR DEFENCE STAFF OFFICERS COURSE

NOMINAL ROLL 28 MAR 60 to 15 APR 60

NUMBER	RANK	NAME	UNIT
ZA 3129	Maj ✓	ASJ BAKE	AHQ(Br of the GS) DMI, Ottawa, Ont
ZD 2493	Maj ✓	N A BUCKINGHAM	HQ NB Area, Fredericton, NB ✓
ZB 3130	Maj ✓	P M BURGER	HQ Eascom, Halifax, NS ✓
ZC 317	Maj ✓	EHP GARNEAU	HQ Quecom, Montreal, Que ✓
ZK 3346	Maj ✓	J L HUNTER	HQ Sask Area, Regina, Sask ✓
ZB 3164	Maj ✓	F R HUXTABLE	AHQ(Br of the QMG) D Wks, Ottawa, Ont
ZU 1053	Maj ✓	C V LILLEY	HQ BC Area, Vancouver, BC ✓
ZB 121	Maj ✓	J W McGLENNAN	HQ Cencom, Oakville, Ont
ZD 2707	Maj ✓	F H MILLEDGE	HQ East Ont Area, Kingston, Ont ✓
ZC 2841	Maj ✓	CHA SPENCER	HQ Camp Gagetown, Gagetown, NB ✓
ZM 1103	Maj ✓	M I WALTON	HQ Calgary, Calgary, Alta
ZA 3357	Maj ✓	W H WILLIS	HQ Man Area, Winnipeg, Man ✓
ZD 575	Maj ✓	JAO WOODCOCK	HQ East Que Area, Quebec, Que ✓
ZB 4209	Capt	W T BOULTON	HQ West Ont Area, London, Ont ✓
ZB 4541	Capt	J G HENDERSON	AHQ(Br of the QMG) DQOP, Ottawa, Ont
ZM 9796	Capt	N D MacEACHERN	AHQ(Br of the GS) DSO&P, Ottawa, Ont ✓
	Mr	E G SHERRING	Civil Defence College, Arnprior, Ont
	Mr	P THERIAULT	Privy Council, Ottawa, Ont

16 - CA(R)  
2 - Civ

M E M O R A N D U M

HQ 3310-84/J9 (DSO&P 3)

28 Mar 60

Nuclear Defence Staff Officer's Course - JABC School  
NBC 8 28 Mar - 14 Apr 60

1. Please refer to HQ 3310-84/J9 (DSO&P 3) dated 17 Mar 60. respecting Course NBC 8 at the JABC School.
2. Information has now been received from the Air Officer Commanding, Air Defence Command, that the facilities at ADC, St Hubert, cannot be made available for the visit of students and Directing Staff of Course NBC 8 on 8 Apr 60, by reason of a prior commitment.
3. The Commandant, JABC School, has agreed to have the visit to Dorval and St Hubert carried out on Monday, 11 Apr 60. This date is suitable to both the Department of Transport and the AOC, ADC.
4. Accordingly, please amend our letter of 17 Mar 60 to read 11 Apr for the visit. JABC School will confirm travel arrangements and transportation needs to DMT, as soon as possible.

*[Signature]*  
J.E. Kenyon  
Colonel  
DSO&P.

Distribution:

DWD (Attn: Mr Hagglund)  
DMT (Attn: MT 5)  
SO 4  
JABC School

SO 4 *AOL*  
A *late*  
B *late*  
C *late*

SO 4  
Please advise  
which of us are  
to go

*HMS*  
SO 4 a.  
31 mar 61

SO 4 @ to  
attending  
office  
JABC  
14 Apr 60  
mated  
HMS  
6 Apr 60

RESTRICTED

PA → HQS 3310-84/J9 (MT 5B)


ARMY HEADQUARTERS  
OTTAWA Ont, 1 Apr 60

National Survival Regional Warning System  
HQ Air Defence Command  
St Hubert PQ.

Attention: Senior Operations Officer

NEC 8 - Nuclear Defence Staff Officers Course  
Security Clearances

1. Reference conversation - Lt Col Morris - Capt Rowntree.
2. Attached as ANNEX A is nominal roll of personnel with their security classifications who will be visiting the CAO and ADC on 11 Apr 60.

  
(SF Clark)  
Lieutenant General  
Chief of the General Staff

RW/gw

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RESTRICTED

ANNEX A  
TO HQS 3310-84/J9(MT 5B)  
DATED APR 60

NUCLEAR DEFENCE STAFF OFFICERS COURSE

28 Mar 60 to 15 Apr 60

NUMBER	RANK	NAME	UNIT	SECURITY CLASSIFICATION
ZA 3129	Maj	ASJ BAKE	AHQ(Br of the GS) DMI, Ottawa Ont	Top Secret
ZD 2493	Maj	NA DUCKINGHAM	HQ NB Area, Fredericton, NB	Top Secret
ZB 3130	Maj	PM BURGER	HQ Bascom, Halifax NS	Secret
ZC 317	Maj	BNP GARNEAU	HQ Quecom, Montreal Que	Top Secret
ZK 3346	Maj	JL HUNTER	HQ Sask Area, Regina Sask	Top Secret
ZB 3164	Maj	FR HUXTABLE	AHQ(Br of the QMG) D Wks, Ottawa Ont	Top Secret
ZU 1053	Maj	OV LILLEY	HQ BC Area, Vancouver, BC	Top Secret
ZB 121	Maj	JW McCLENNAN	HQ Cencom, Oakville Ont	Top Secret
ZD 2707	Maj	PH MILLEDGE	HQ East Ont Area, Kingston Ont	Top Secret
ZC 2841	Maj	CHA SPENCER	HQ Camp Gagetown, Gagetown NB	Secret
ZM 1103	Maj	MI WALTON	HQ Calgary, Calgary Alta	Secret
ZA 3357	Maj	WH WILLIS	HQ Man Area, Winnipeg Man	Secret
ZD 575	Maj	JAO WOODCOCK	HQ East Que Area, Quebec Que	Top Secret
ZB 4209	Capt	WT BOULTON	HQ West Ont Area, London Ont	Secret
ZB 4541	Capt	JG HENDERSON	AHQ(Br of the QMG) DQOP, Ottawa Ont	Secret
ZM 9796	Capt	ND MacEACHERN	AHQ(Br of the GS) DSO&P, Ottawa Ont	Secret
	Mr	BO SHERRING	Civil Defence College, Arnprior Ont	Top Secret
	Mr	P THERIAULT	Privy Council, Ottawa Ont	Secret
ZE 124	Maj	HE NEWTON	JABCS, Camp Borden Ont	ZED
O-4182	Lt	CE BANDY	JABCS, Camp Borden Ont	ZED
ZG 2777	Capt	JG MOORE	JABCS, Camp Borden Ont	ZED
ZC 3086	Capt	HLJ CORRETT	JABCS, Camp Borden, Ont	ZED
202632	F/L	CC UNGER	JABCS, Camp Borden Ont	ZED
	Mr	M HAAGLUND	AHQ(Br of the GS) DEP, Ottawa Ont	ZED

and

Representative from AHQ (Br of the GS) DSO&P who will act as conducting officer for visit to ADC. Name will be submitted before visit to ADC.

RESTRICTED



7A → HQC 3310-64/39 (MT 5B)  
EDF 5-0-7-1

ARMY HEADQUARTERS  
OTTAWA Ont, 24 Mar 60

Commandant  
JADC School  
CAMP BORDEN,  
Ontario.

Visit - CAO Dorval and ADC St Hubert  
HQC 8 - Nuclear Defense Staff Officers Course

1. Reference is made to JHCS/3310-8 dated 16 Mar 60.
2. The times for the visits to the CAO Dorval and the ADC St Hubert on 11 Apr 60 are attached as Annex A.
3. Mr. Haaglund, DEP, will act as conducting officer for the visit to the CAO and an officer (probably Major Good) from DSO&P will act as conducting officer for the visit to the ADC.

*h*  
(MR Dore)  
Colonel  
Director of Military Training

cc: DEP (Mr Haaglund)  
DSO&P for conducting officer  
Senior Operations Officer,  
National Survival Attack Warning Centre,  
Air Defence Command  
St Hubert

ANNEX A  
TO HQC 3310-84/J9  
HQP 5-0-7-1  
DATED 29 MAR 60

ITINERARY FOR VISIT OF NAC 8  
NUCLEAR DEFENCE STAFF OFFICERS COURSE  
TO  
CAO, DORVAL AND ADC, ST HUBERT  
ON 11 APR 60

SERIAL

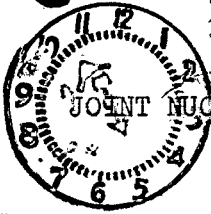
1	0658 hrs	Arrive St Anne de Bellevue
2	0700 hrs	Depart St Anne de Bellevue by bus
3	0730 hrs	Arrive Dorval
4	0730 - 0830 hrs	Breakfast at Dorval
5	0830 - 1100 hrs	Visit CAO, Dorval
6	1100 hrs	Depart Dorval by bus
7	1200 hrs	Arrive St Hubert
8	1200 - 1300 hrs	Lunch at St Hubert *
9	1330 - 1600 hrs	Visit ADC, St Hubert
10	1615 hrs	Depart St Hubert by bus
11	1715 hrs	Arrive Windsor Station, Montreal

\* There is a choice between a 50¢ or 75¢ lunch



CANADA

MAR 22 '60 AM



# Department of National Defence

IN REPLY PLEASE QUOTE

JNBCS/3310-8  
NO JNBCS/1960-2

JOINT NUCLEAR BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN, Ontario

16 Mar 60

MILITARY TRAINING  
CAMP

Army Headquarters  
Department of National Defence  
OTTAWA 4, Ontario

Attention: DMT (MT 5)

VISIT - CAO, DORVAL AND ADC, ST HUBERT  
NBC 8 - Nuclear Defence Staff Officers Course

Revised to *omit*  
MAR 21 1960  
File No. 3310-84/89  
Chgd to DMT 11-3-60

1. Authority is requested for thirty four officers including DS to visit CAO, Dorval and ADC, St Hubert on dates and at times as listed:
  - a. CAO, Dorval - 8<sup>11</sup> Apr 60 approximately 0830 - 1130 hrs.
  - b. ADC, St Hubert - 8<sup>11</sup> Apr 60 approximately 1230 - 1700 hrs.
2. A proposed itinerary for the visit is attached as Annex "A".
3. Confirmation as soon as possible of the following points would be appreciated;
  - a. Authority for the trip (para 1 above).
  - b. Availability of bus transportation as listed in serials 5, 9 and 13 of Annex "A".
  - c. That Mr. Haagland will be available to conduct the course through CAO.
  - d. That an officer from AHQ will be available at St Hubert to meet the course and conduct them through the organization.

C.A.F.A. 440

cc: DSO & P (attn Lt-Col Haley)

*[Signature]*  
(KE Grant)  
Commander RCN  
Commandant

489.  
000147

Annex "A" to  
~~JNCS/3310-8~~  
JNBCS/1960-2  
d/16 Mar 60

Proposed itinerary for visit of NBC 8 - Nuclear Defence  
Staff Officers Course to CAO, Dorval and ADC, St Hubert on  
8 Apr 60.

1. Thurs 7 Apr 60 at 2000 hrs - depart Camp Borden, via DND bus -  
arranged for by JNBCS.
2. Thurs 7 Apr 60 at 2230 hrs - arrive Union Stn, Toronto.
3. Thurs 7 Apr 60 at 2305 hrs - depart Union Stn, Toronto via CPR -  
arranged for by JNBCS
4. Fri 8 Apr 60 at 0658 hrs - arrive St Anne de Bellevue.
- \* 5. Fri 8 Apr 60 at 0700 hrs - depart St Anne de Bellevue via bus  
to be arranged for by AHQ.
6. Fri 8 Apr 60 at 0730 hrs - arrive Dorval.
7. Fri 8 Apr 60 at 0730 hrs - 0830 hrs Breakfast at Dorval.
8. Fri 8 Apr 60 at 0830 hrs - <sup>06</sup>1130 hrs Tour of CAO, Dorval.
- \* 9. Fri 8 Apr 60 at <sup>06</sup>1130 hrs - depart Dorval via bus - to be  
arranged for by AHQ.
10. Fri 8 Apr 60 at <sup>00</sup>1230 hrs - arrive St Hubert.
11. Fri 8 Apr 60 at <sup>00</sup>1230 hrs - <sup>00</sup>1345 hrs Lunch at St Hubert.
12. Fri 8 Apr 60 at <sup>130</sup>1400 hrs - <sup>6</sup>1700 hrs Tour of ADC, St Hubert.
- \* 13. Fri 8 Apr 60 at <sup>6</sup>1730 hrs - depart St Hubert via bus - to be  
arranged for by AHQ.
14. Fri 8 Apr 60 at 1830 hrs - arrive Windsor Stn, Montreal.
15. Fri 8 Apr 60 at 2300 hrs - depart Montreal via CPR - arranged  
for by JNBCS.
16. Sat 9 Apr 60 at 0730 hrs - arrive Union Stn, Toronto.
17. Sat 9 Apr 60 at 0830 hrs - depart Union Stn, Toronto via bus  
arranged for by JNBCS.
18. Sat 9 Apr 60 at 1030 hrs - arrive Camp Borden.

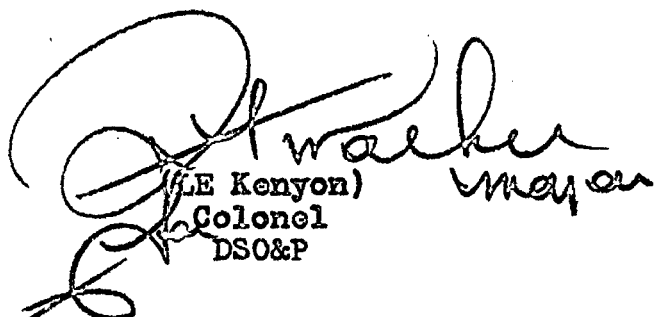
M E M O R A N D U M

CB  
PA  
HQ 3310-84/J9 (DSO&P 3)

28 Mar 60

Nuclear Defence Staff Officer's Course - JABC School  
NBC 8 28 Mar - 14 Apr 60

1. Please refer to HQ 3310-84/J9 (DSO&P 3) dated 17 Mar 60. respecting Course NBC 8 at the JABC School.
2. Information has now been received from the Air Officer Commanding, Air Defence Command, that the facilities at ADC, St Hubert, cannot be made available for the visit of students and Directing Staff of Course NBC 8 on 8 Apr 60, by reason of a prior commitment.
3. The Commandant, JABC School, has agreed to have the visit to Dorval and St Hubert carried out on Monday, 11 Apr 60. This date is suitable to both the Department of Transport and the AOC, ADC.
4. Accordingly, please amend our letter of 17 Mar 60 to read 11 Apr for the visit. JABC School will confirm travel arrangements and transportation needs to DMT, as soon as possible.

  
(E Kenyon)  
Colonel  
DSO&P

Distribution:

DWD (Attn: Mr Hagglund)  
DMT (Attn: MT 5)  
SO 4  
JABC School

①



# MESSAGE FORM

Document disclosed under the Access to Information Act  
Document divulgué en vertu de la loi sur l'accès à l'information

FOR COMM-CEN/SIGNALS USE

FILE

NUMBER 2

*fa*

PRECEDENCE - ACTION <b>PRIORITY</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <b>05/2120 /MAR 60</b>		MESSAGE INSTRUCTIONS	
FROM		CANADIAN				PREFIX GR	
TO		JAGC SCHOOL CAMP BORDEN				SECURITY CLASSIFICATION UNCLAS	
INFO		VERCON				ORIGINATOR'S NUMBER PERS 1124 COORD 2	
<p>RE VERCON 1215 OF 25 MAR 60 (.) DELITE ZA 4679 CAPT OL ROBERTS HQ MAN AREA FROM LIST OF CANDIDATES TO ATTEND NEC 8 (.) NO REPLACEMENT AVAL</p> <p>001 BOCAP INT (MT 50) D Arnd Pers Sr Office Pers BOCAP</p>							

PAGE		OF		PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>						D PERS COORD 2 2-3565							
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE		

CAFB 1718 (JSF) (REV 3/59)  
CNS 1320 A (REV 3/59)  
RCAF 543 (REV 3/59)  
7530 - 21 - 562 - 1556

COPY 4

000150



MESSAGE FORM

PRECEDENCE-ACTION

DATE/TIME/GP

PRIORITY

24/2145/MAR 60

FROM: CANARMY

TO: CENCOM/WONTAREA/JABC SCHOOL BORDEN

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS 11797 COORD 2

PARA 1 YOUR A6675 OF 24 MAR 60 REFERS NBC 8 COMMENCING 28 MAR 60

PARA 2 AUTH GRANTED DELETE ZU 5287 CAPT CM GRANT FROM COURSE NO  
REPLACEMENT AVAL

PARA 3 PERS 7917 COORD 2 OF 24 MAR 60 CANCELLED

ORIGINATOR

PHONE

FILE REF:

2-3565

HQ 3310-84/J9 (Pers Coord 2)

cc: DSO&P

DMT (MT 5B)

D Armd

Pers Sr Offrs

Pers RCAC

①

MESSAGE FORM

PRECEDENCE-ACTION

DATE/TIME/GP

PRIORITY

24/1515/MAR 60

FROM: CANARMY

TO: CENCOM/WONTAREA/JABC SCHOOL BORDEN

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS

7917

COORD 2

PARA 1 YOUR A6667 OF 23 MAR 60 REFERS COURSE NBC 8 AT JABC SCHOOL  
COMMENCING 28 MAR 60

PARA 2 CONCUR IN SUBSTITUTION ZB 404 MAJ WO RONEY RCA HQ WEST ONT AREA  
FOR ZU 5287 CAPT CM GRANT RCD HQ CENTRAL ONT AREA FOR THIS COURSE

ORIGINATOR

PHONE

FILE REF:

3 *Revest*

2-3565

HQ 3310-84/J9 (Pers Coord 2)

cc: DSO&P  
IMT (MT 5B)  
D Armd  
D Arty  
Pers Sr Offrs  
Pers Armd  
Pers RCAC

*P17*

MESSAGE FORM

PRIORITY

PRECEDENCE-ACTION

DATE/TIME/GP

PRIORITY

24/1715/MAR 60

FROM: CANARMY

TO: JABC SCHOOL BORDEN/ 1 AAU (BY HAND)

INFO: GENCOM

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS 7920 COORD 2

DUE TO ILLNESS ZB 3477 MAJ EK FITZGERALD RCAMC AHQ AG BR ADSC (A)

NOT ABLE TO ATTEND COURSE NBC 8 COMMENCING 28 MAR 60 (.)

REPLACEMENT NOT AVAL AT THIS TIME (.) DELETE FROM LIST OF

CANDIDATES IN PERS 7827 COORD 2 OF 15 MAR 60

ORIGINATOR

PHONE

FILE REF:

*[Handwritten signature]*

2-3565

HQ 3310-84/J9 (Pers Coord 2)

cc: DSO&P  
IMT (MT 5B)  
DSG (A)  
ASG 5  
Pers Sr Offrs  
Pers RCAMC

*[Handwritten arrow pointing to HQ 3310-84/J9 (Pers Coord 2)]*  
*P.F.*

*①*

# MESSAGE FORM

FILE

BDP 7-2-8

R COMMEN/SIGNALS USE

CR PA → HQ 3310-84/89

PRECEDENCE - ACTION <b>DEFERRED</b>	PRECEDENCE - INFO DEFERRED	DATE - TIME GROUP 23/1645/11/16	MESSAGE INSTRUCTIONS
FROM <b>CANADIAN</b>			PREFIX GR
TO <b>JAMES CARROLL</b>			SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>
INFO <b>CD COLLEGE ANNPRICH</b>			ORIGINATOR'S NUMBER <b>764</b>

FOLLOWING CIVILIANS WILL BE ATTENDING NBC 8 - STAFF  
OFFICERS NUCLEAR DEFENCE COURSE INSPECTOR GW NUDGE  
RCMP TOP SECRET. MR ED SHERRING CD COLLEGE ANNPRICH  
TOP SECRET. MR P THORIAULT PROVINCIAL LIAISON OFFICER  
SECRET. THEY WILL BE ARRIVING AT MALTON 2140 HRS TCA  
FLT 359 ON SUN 27 MAR. PLEASE MEET

cc: RND for Mr P Thoriault  
RCMP for Inspector GW Nudge

PAGE OF PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.			
		CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		/ms							
FOR OPR'S USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE
											(MR Dava) Col

# MESSAGE FORM

FILE Document disclosed under the Access to Information Act  
Document divulgué en vertu de la Loi sur l'accès à l'information

FOR COMMEN/SIGNALS USE

NUMBER

CRP

PRECEDENCE - ACTION <b>DEFERRED</b>		PRECEDENCE - INFO <b>DEFERRED</b>		DATE - TIME GROUP <b>23/040 Mark</b>		MESSAGE INSTRUCTIONS	
FROM <b>CANARMY</b>						PREFIX <b>GR</b>	
TO <b>JABCS CAMBORD</b>						SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>	
INFO						ORIGINATOR'S NUMBER <b>TRG 769</b>	

FURTHER TO TRG 764 DATED 23 MAR INSPECTOR GW MUDGE WILL NOT NOW BE ABLE TO ATTEND NEC 8.

PAGE OF PAGES			REFERS TO MESSAGE			DRAFTER'S NAME			OFFICE			TEL.		
			CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>			<b>RHJR/gow</b>			<b>(MT 5B)</b>			<b>6-6040</b>		
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE <b>(MR Dare) Colonel</b> <b>Director of Military Training</b>			



CR PA  
HQ 3310-84/J9  
(DSO&P 3a)

ARMY HEADQUARTERS  
OTTAWA Ont, 24 Mar 60

The Commissioner,  
Royal Canadian Mounted Police,  
Room B 323,  
RCMP Headquarters,  
Tremblay Road,  
Ottawa, Ontario.

Nuclear Defence Staff Officers Course  
JABCS - Camp Borden

1. I wish to acknowledge your letter of 23 March 1960 in respect to Inspector Mudge being unable to attend the Nuclear Staff Officers Course at the JABC School in Camp Borden.

2. It is regretted that you will not have an officer on the course now underway; however, arrangements will be made for an allocation for your headquarters on a course of the same scope, which we hope to conduct later in the year.

✓  
(AE Wrinch)  
Major-General  
Major-General Survival

RFW/2-3010/er

①



47  
24

ALL CORRESPONDENCE TO BE ADDRESSED:-  
THE COMMISSIONER  
R. C. M. POLICE  
OTTAWA



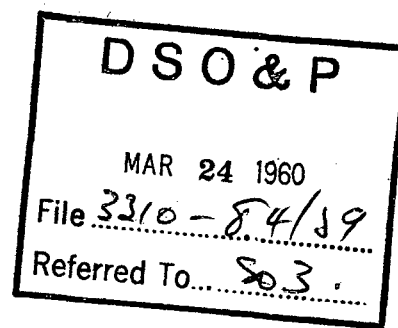
ROYAL CANADIAN MOUNTED POLICE  
OFFICE OF THE COMMISSIONER  
OTTAWA

REF. No. G 355-16

March 23, 1960

Your Ref. HQ 3310-84/J9  
(DSO&P 3)

Major-General A.E. Wrinch, CBE, CD,  
Director of Survival Operations,  
Room 3507, "A" Building,  
Canadian Army Headquarters,  
Ottawa, Ontario.



Re: Special Nuclear Defensive  
Warfare Indoctrination Course

With reference to my letter of February 17 last respecting attendance at the above mentioned Course, I now find that due to other pressing commitments it will be absolutely impossible to have Inspector Mudge attend this first Course. We would welcome the opportunity of attending the second Course which I understand will take place in the Fall and by which time Cabinet decision will have been made on the R.C.M.P. role in the task of Radiation Monitoring.

2. Inspector Mudge has been directed to contact the Army Liaison Officer to the R.C.M.P. in regard to his incapacity to attend the Course, which is scheduled to commence early next week.

②  
DSO&P  
Pls reply

W. WRINCH  
Major-General  
M.G.S.

24 MAR 1960

C.W. Harvison,  
Deputy Commissioner.

DNF  
Advised  
Mudge

210298

MAR 21 21 02 '60

MAR 21 21 04260

NNNN

DSO & P

MAR 21 1960

File 3310-84/J9

Referred To... 50.3

EAA169

RR RAEHC

DE RAEPB 52/21

R 211915Z

FM JNBCS CAMP BORDEN

TO CANARMY

BT

U N C L A S S I F I E D A137 FOR DSOP LT COL HALEY AND MT 5 FURTHER  
OURLET JNBCS/3310-8 OVER JNBCS/1960-2 DATED 16 MAR ANNEX A CMA HQ  
3310-84/J) (DSO&P 3) DATED 17 MAR AND CONVERSATION LT COL HALEY - CDR  
GRANT 17 MAR PD AMEND OUR LETTER READ 10 CMA 11 CMA 12 APR INSTEAD  
7 CMA 8 CMA 9 APR RESPECTIVELY PD MT 5 PLEASE PROVIDE BUS TPT MEET ST  
ANNE 0658 HRS 11 APR AND REMAIN WITH GROUP DORVAL - ST HUBERT -  
MONTREAL UNTIL DEPARTURE WINDSOR STN 2300 HRS 11 APR OURLET ANNEX A  
SERIALS 4 TO 15 INCL REFER

BT

CFN A137 5 3310-8 1960-2 16 3310-84/J9 3 17 17 10 11 12 7 8 9 5 0658

11 2300 11 4 15

21/2032Z MAR RAEPB

1099 25549

(2) NWAL PA

please

det 29 marks  
000158

180370

NNNEF 097RMA219

MAR 18 19 13 '60

PP RFEPDT RFEPBL RAEPC

DE RFEPMR 122/18

P M 181800Z

FM CANAIRMAT

TO RFEPDT/6RD TRENTON

INFO RFEPBL/JNBCS CAMP BORDEN

RAEPC/CANARMY

BT

U N C L A S S I F I E D P904 18 MAR

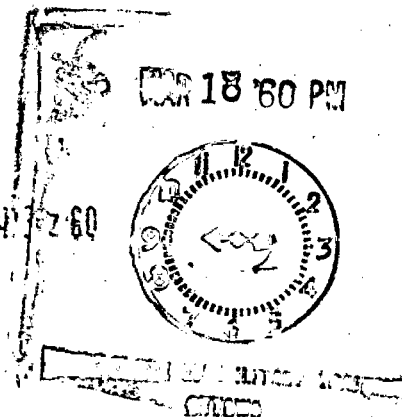
YOUR P40 17 MAR AND ANSWER BY CAMP BORDEN A136 17 MAR PD SECRET

CLEARANCE FOR 52736 FL K WALKER MED MO NOW IN EFFECT PD MAY

NOMINATION BE REINSTATED

BT

18/1826Z



① DM 11  
HQ 3310-84/99

② PA  
does not affect us  
Lt Bm 60

M E M O R A N D U M

PA → HQ 3310-84/J9 (DSO&P 3)  
17 Mar 60

34  
7

Nuclear Defence Staff Officer's Course - JABC School  
NBC 8 28 Mar - 14 Apr 60

36

1. The JABC School has informed DSO&P as follows:
  - a. 30 students and 4 instructors of Course NBC 8 will visit Dorval, Que. (DOT Central Analysis Office, Main Meteorology Office and District Aviation Forecast Office), and St. Hubert, Que. (National Survival Attack Warning Centre and Air Defence Command), on 8 Apr 60;
  - b. The party will travel by rail overnight 7 Apr, Camp Borden - Toronto - Ste Anne de Bellevue;
  - c. The party will spend the morning of 8 Apr at Dorval and the afternoon at St. Hubert;
  - d. Details of transportation needed for the visit, and the official request therefor, will be sent to DMT, immediately, by JABC School.
2. The School has requested that Mr. Hagglund, the Army Staff Meteorologist, and Lt Col Vincent, DSO&P, (or his rep), be made available on 8 Apr to escort the party to the various offices, as above.

*RB. Kenyon to Col*  
A (LE Kenyon)  
Colonel  
DSO&P

Distribution:

DWD (Attn: Mr. Hagglund)  
DMT (Attn: MT5)  
→ SO 4  
JABC School (info)

SO 4 AOK  
A HOB  
B HOB  
C HOB

9

M E M O R A N D U M

PA  
HQ 3310-84/J9 (DSO&P 3)

17 Mar 60

Nuclear Defence Staff Officer's Course - JABC School  
NBC 8 28 Mar - 14 Apr 60

1. The JABC School has informed DSO&P as follows:
  - a. 30 students and 4 instructors of Course NBC 8 will visit Dorval, Que. (DOT Central Analysis Office, Main Meteorology Office and District Aviation Forecast Office), and St. Hubert, Que. (National Survival Attack Warning Centre and Air Defence Command), on 8 Apr 60;
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2. The School has requested that Mr. Hagglund, the Army Staff Meteorologist, and Lt Col Vincent, DSO&P, (or his rep), be made available on 8 Apr to escort the party to the various offices, as above.

*B. H. Kenyon*  
h (LE Kenyon)  
Colonel  
DSO&P

Distribution:

DWD (Attn: Mr. Hagglund)  
DMT (Attn: MT5)  
SO 4  
JABC School (info)

MESSAGE FORM

PRECEDENCE-ACTION

DATE/TIME/GP

ROUTINE

17/1930/MAR 60

FROM: CANARMY

TO: CENCOM/JABC SCHOOL BORDEN

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS

7851

COORD 2

PARA 1 YOUR A6614 OF 16 MAR 60 REFERS COURSE NBC 8 AT JABC SCHOOL 28 MAR 60

PARA 2 FROM LIST OF CANDIDATES SELECTED TO ATTEND (PERS 7827 COORD 2 OF 15 MAR 60 REFERS) DELETE ZB 137 MAJ R CUMMINGS LDH(RC) HQ CENTRAL ONT AREA AND  
SUBSTITUTE ZU 5287 CAPT CM GRANT RCD HQ CENTRAL ONT AREA

ORIGINATOR

PHONE

FILE REF:

*W. C. H. G.*

2-3565

HQ 3310-84/J9 (Pers Coord 2)

cc: DSO&P  
DMT (MT5B)  
D Armd  
Pers RCAC

*PA*



PA

PRECEDENCE-ACTION  
PRIORITYDATE/TIME/GP  
16/2000 MAR 60ZSECURITY CLASSIFICATION  
UNCLAS

FROM: CANADIAN

TO : WESCOM / JABC SCHOOL BORDEN

ORIGINATOR'S NUMBER  
PERS 7838 COORD

INFO: QUECCOL

PARA ONE: OUR PERS 7827 COORD 2 AND WESCOM A 1182 OF 15 MAR 60 REFER NUCLEAR DEFENCE  
STAFF OFFRS COURSE NBCs 8

PARA TWO: ASSULTE FROM YOUR MSG ZU 1053 MAJ CV LILLEY NOMINATED TO ATTEND INSTEAD OF  
ZK 2734 MAJ JA COOK

PARA THREE: FROM LIST OF CANDIDATES SELECTED TO ATTEND

DELETE: ZK 2734 MAJ JA COOK RCA HQ BC AREA

AND ADD: ZU 1053 MAJ CV LILLEY PPCLI HQ BC AREA

ZM 1103 MAJ MI WALTON RCASC HQ CALGARY GRN

ZA 4679 CAPT OL ROBERTS LASH(RC) HQ MAN AREA

PARA FOUR: MAJ LILLEY AND CAPT ROBERTS CLEARED TOPSEC CIL MAJ WALTON TO SECRET

PARA FIVE: FOR QUECCOL FROM PARA 2 OF PERS 7827 COORD 2 DELETE ROBITAILLE

Drafter's Name

Office

Phone

Pers Coord

2-3565

cc: DSO&P  
DET (LT 5B)  
D Armd  
D Inf  
DST  
Pers Sr Offrs  
Pers RCAC  
Pers RCIC  
Pers RCASC

Releasing Officer's Signature



10

MEMORANDUM

3241-248  
HQ 3241-840 (DSO&P)

15 Mar 60

SO 5 - ?

Nuclear Staff Officers - Technical Trg

1. Please explore this subject.
2. I suggest that some expert, such as Dr Massey, CADRE, or DND 3 be asked to prepare a detailed statement of the extent of the technical knowledge required by our NEOs at Comds and Areas to do their job.
3. We could then assemble a meeting of all concerned to discuss it and to suggest the methods of trg.

(LE Kenyon)  
Colonel  
DSO&P

cc: DMT  
SO 1  
SO 2  
SO 3  
SO 4

SO 3(a)

SO 3

I can only agree  
with you. These officers  
need be mainly concerned  
with fault plotting area  
ASAS system  
each  
SO 3H  
10 Mar 60

SO 4

Will you confirm my  
statement in min ②, pls, or  
tell me if I'm wrong.

RBK SO 3

16 Nov 60

SO 3

This matter is now being handled by SO 5;  
17 Mar 60  
JHC SO 4B

000164



DEPARTMENT OF  
NATIONAL HEALTH AND WELFARE  
CANADIAN CIVIL DEFENCE COLLEGE

IN YOUR REPLY REFER TO  
OUR FILE No. 20-1-29  
Your file: HQ 3310-84/J9  
(DSO&P 3)

Arnprior, Ontario,  
March 10, 1960.

①  
Directorate of Survival Operations,  
and Plans,  
Department of National Defence,  
Army Headquarters,  
O t t a w a, Ontario.

Dear Sir:

Re: College Representation - Special Nuclear  
Defensive Indoctrination Course

With reference to your letter 5th of February, file number as above, please be advised that we consider College representation at this course most desirable. Representation will be in the person of Mr. E.G. Sherring who is chief of our Special Weapons Instructional Section.

2. Please accept our thanks for making it possible for a member of this institution to take part in this indoctrination course which will without doubt add greatly to his knowledge, not only of special weapons but of the Department of National Defence responsibilities in national survival.

3. If there are any pre-course papers being issued, it is requested that a copy be forwarded to the College for Mr. Sherring's attention.

Yours very truly,

C. L. Smith,  
A/Commandant.

②  
DMT  
Please despatch  
Gaining instruction  
16 Mar 60  
DSO&P  
16 Mar 60

③

Done - Pk.  
in 23 Mar 60  
by [signature]  
and [signature]

000165



# MESSAGE FORM

FILE

Document disclosed under the Access to Information Act  
Document divulgué en vertu de la Loi sur l'accès à l'information

FOR COMMEN/SIGNALS USE

NUMBER

*fa*

PRECEDENCE - ACTION <b>PRIORITY</b>		PRECEDENCE - INFO DEFERRED		DATE - TIME GROUP <b>10/1705/1 MAR 60</b>		MESSAGE INSTRUCTIONS	
FROM <b>CAVARMY</b>				PREFIX <b>GR</b>			
TO <b>WESCOM</b>				SECURITY CLASSIFICATION <b>UNCLASSIFIED</b>			
INFO				ORIGINATOR'S NUMBER <b>PERS 780/COORD</b>			

REURTEL A 244 OF 1 MAR 60 CONCERNING CANDIDATES NUC DEF SO CRSE NBC 8 (.)  
APPRECIATE REASONS FOR NOT CONCURRING TO OUR NOMINATIONS TWO UNDER PERS COORD 4052  
OF 26 FEB 60 (.) ESSENTIAL HOWEVER YOUR QUOTA OF THREE OFFRS BE FILLED PARTICULARLY  
AS TWO OF YOUR GSO 2 NUC STAFF OFFRS CAN NOT ATTEND (.) REQUEST YOU NOMINATE TWO  
STAFF TRAINED OFFRS EITHER CAPTS OF MAJIS FOR COURSE (.) IF NOT POSSIBLE FROM  
YOUR HQ STAFF THEN FROM PD UNITS (.) ADVISE SOONEST

PAGE		OF		PAGES		REFERS TO MESSAGE		DRAFTER'S NAME		OFFICE		TEL.	
						CLASSIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>				DGAP		6-6307	
FOR OPR'S USE	<b>R</b>	DATE	TIME	SYSTEM	OPERATOR	<b>D</b>	DATE	TIME	SYSTEM	OPERATOR	RELEASING OFFICER'S SIGNATURE <b>(TA JOHNSTON) BRIG DIRECTOR GENERAL ARMY PERSONNEL</b>		

~~Round~~ ~~File~~

1. Have these CD personnel  
been Security cleared to  
"SECRET".

2. Our HAS 3310-84/59(MISB)  
19 Feb 60 - para 3 d(2)  
refers.



GOVERNMENT  
OF  
CANADA

# ACTION REQUEST

CGSB 6-GP-12  
P. & S. Cat. 3433

TO

LOCATION

FOR:

FILE NO.

<input type="checkbox"/>
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ACTION  
APPROVAL  
COMMENTS  
DRAFT REPLY  
INFORMATION  
INVESTIGATION  
MORE DETAILS  
NOTE & FILE

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NOTE & FORWARD  
NOTE & RETURN  
REPLY, PLEASE  
SEE ME, PLEASE  
SIGNATURE  
TRANSLATION  
YOUR REQUEST

PREPARE MEMO TO:

REPLY FOR SIGNATURES OF:

REMARKS:

FROM

PHONE

LOCATION

1000168



PRIVY COUNCIL OFFICE



BUREAU DU CONSEIL PRIVÉ

OTTAWA, March 8, 1960.

The Director, DSO&P,  
Department of National Defence,  
Ottawa, Ontario.

Attention Lt.Col. Marriott

Dear Colonel Marriott:-

Thank you very much for your letter  
of February 5, in which you informed us of a Special Nuclear  
Defensive Warfare Indoctrination Course being conducted from  
March 28 to April 14.

Emergency Measures Organization nominees  
for this course are:

- OK
1. Mr. Paul Theriault - Provincial Liaison Officer
  2. Mr. E. G. Sherring - Senior Special Weapons  
Instructor, Canadian Civil Defence College  
and a member of the Radiological Defence Group.

*Is Mr. Sherring the CDC rep,  
or have they a separate  
nomination?*

Would you please forward any details of  
this course or Joining Instructions to us so that we may pass  
them to Mr. Theriault and Mr. Sherring.

Yours sincerely,

SO 3(a)

For appropriate action, pls.

11 Mar 60 RBH SO3

(13)

BMT  
Call

Emergency Measures Organization.

Donat Rancourt  
Donat Rancourt  
Wach  
SO3A  
11 Mar 60

④ Done by telephone  
& message.  
14 23 Mar 60

HQ 3310-84/J9 (MT 5B)  
BDP 5-2-0-8

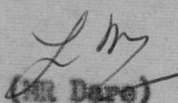
CRP#

ARMY HEADQUARTERS  
OTTAWA Ont, 8 Mar 60

Commandant  
JABC School  
CAMP BORDEN, Ontario.

NBCS - Nuclear Defence Staff Officers Course  
Training Standards

1. Reference is made to the training standards, syllabus of training and weekly time table for the marginally noted course which were delivered to DSO&P by Capt Moore.
2. These training standards have been reviewed and are concurred in.

  
(Mr Dore)  
Colonel  
Director of Military Training

/ab

MESSAGE FORM

pa 3310-84/99

PRECEDENCE - ACTION

DATE TIME GROUP

PRIORITY

26/1845/FEB 60Z

FROM: CANARMY  
TO: WESCOM / CENCOM / QUECOM / EASCOM

SECURITY CLASSIFICATION

UNCLAS

ORIGINATOR'S NUMBER

PERS 4052 COORD 2

PARA 1 HQS 3310-84/J9 (MT 5B) OF 19 FEB 60 REFERS NUCLEAR DEFENCE STAFF OFFRS COURSE NBC 8 COMMENCING 28 MAR 60 DURATION THREE WEEKS AT JAPC SCHOOL

PARA 2 COURSE IS DESIGNED TO TRAIN NUC SOs, STAFF OFFRS IN COMDS AND AREAS TO SERVE AS ALTERNATES TO NUC SOs, AND STAFF OFFRS EMP ON DUTIES IN AHQ WHICH REQUIRE TRG IN NUCLEAR DEFENSIVE WARFARE

PARA 3 FOL OFFRS NOMINATED BY DGAP HAVE BEEN SELECTED AS PART OF THEIR CAREER PLAN:

ZB 3130	MAJ	FM	BURGER	LdSH (RC)	HQ EASTERN COMD
ZH 3047	MAJ	AW	MATHEWMAN	RCD	HQ NB AREA
ZK 328	MAJ	CHS	BARTER	RHC	HQ NFLD AREA
ZE 2155	MAJ	JPG	ROHITAILLE	R22eR	HQ QUEBEC COMD
ZD 575	MAJ	JAO	WOODCOCK	R22eR	HQ EQA
ZH 1965	MAJ	MA	MCDOWELL	RCA	HQ CENTRAL COMD
ZB 137	MAJ	R	CUMMINGS	LdSH (RC)	HQ CENT ONT AREA
ZC 3360	MAJ	JE	FORRESTER	RHC	HQ EAST ONT AREA
ZD 2707	MAJ	FH	MILLEDGE	RCD	HQ EAST ONT AREA
ZD 4060	MAJ	IW	HILL	RCR	HQ WEST ONT AREA
ZB 404	MAJ	WO	RONEY	RCA	HQ WEST ONT AREA
ZK 232	MAJ	LW	BASHAM	PPCLI	HQ WESTERN COMD
ZH 2782	MAJ	I	SMITH	RCE	HQ ALTA AREA
ZU 1053	MAJ	CV	LILLEY	PPCLI	HQ BC AREA
ZP 1584	MAJ	TM	MACDONALD	CIN GDS	HQ MAN AREA
ZM 310	MAJ	JC	CHARTRES	LdSH (RC)	HQ MAN AREA
ZK 3346	MAJ	JL	HUNTER	QOR of C	HQ SASK AREA

...../2

-2-

PERS 4052 COORD 2 (CONT'D)

PARA 4 REQUEST COMDS SELECT OR CONFIRM THE SELECTION OF THEIR QUOTA AS LISTED BELOW  
FROM OFFRS NOMINATED IN PARA TWO:

COMD QUOTA FOR COURSE

HQ WEST COMD	-	3
HQ CENTRAL COMD	-	3
HQ QUE COMD	-	2
HQ EAST COMD	-	2

PARA 5 SHOULD A COMD WANT ANOTHER STAFF TRAINED OFFR NOT LISTED ABOVE TRAINED AS AN  
ALTERNATE OFFR NOMINATION SHOULD BE SUBMITTED TO AHQ FOR APPROVAL ASP

PARA 6 IN ADDITION TO COMD QUOTA TOTALLING TEN CANDIDATES FOLLOWING NUC SOs WILL  
ATTEND THIS COURSE:

ZK 2734	MAJ	JA	COOK	RCA	HQ BC AREA
ZA 2713	MAJ	FJ	MURPHY	RCD	HQ WEST COMD
ZB 3148	MAJ	JA	BEAMENT	RCD	HQ ALTA AREA
ZA 3357	MAJ	WH	WILLIS	RCD	HQ MAN AREA
ZC 317	MAJ	EHP	GARNEAU	CDN H	HQ QUE COMD
ZD 2493	MAJ	NA	BUCKINGHAM	LdSH (RC)	HQ NB AREA
ZB 121	MAJ	JW	MCLENNAN	RCA	HQ CENT COMD

PARA 7 COMDS REQUESTED TO ADVISE AHQ D PERS BY NO LATER THAN 4 MAR 60 NAMES OF  
CANDIDATES SELECTED TO ATTEND (c) JOINING INSTRS WILL BE ISSUED WHEN SELECTION FIRM

ORIGINATOR

PHONE

FILE REFERENCE

*4-2ce Mr. R. J.*

2-3565

HQ 3310-84/J9 (Pers Coord 2)

cc: DMT (MT 5)  
DSO&P  
Pers Sr Offrs  
D Armd  
D Arty  
CE  
D Inf  
Pers RCAC  
Pers RCA  
Pers RCE  
Pers RCIC

*PA*

ARMY HEADQUARTERS

PA → HQS 3310-84/49 (MT 5B)  
BDF 5-2-0-8

OTTAWA Ont, 19 Feb 60

Nuclear Defence Staff Officers Course - NBC 8

1. Another course is being added to those already being conducted at the JABCS.
2. The name of the course will be NBC 8 - Nuclear Defence Staff Officers Course (3 weeks). The first course will start on 28 Mar 60.
3. The aim, and prerequisites of the course are:
  - a. AIM - to acquaint officers with:
    - (1) Nuclear weapons and effects.
    - (2) Operations in radioactive areas.
    - (3) Nuclear detection, prediction and radiation reporting systems.
    - (4) Meteorology.
    - (5) BW munitions and employment.
  - b. PREREQUISITES
    - (1) Be of rank of captain or equivalent and above.
    - (2) Be security cleared to receive SECRET information.
4. The description, aim, scope, and prerequisites of this course will be included in the Canadian Army manual of Courses in due course.
5. The DGAP will be selecting the Canadian Army officers to attend this course from among the following categories of officers:
  - a. Nuclear Staff Officers who have not yet attended an appropriate course at the JABCS.
  - b. Officers from Command and Area HQs so that there will be an alternate to the Nuclear Staff Officer.
  - c. DSO&P and directorates at Army HQ.
  - d. Officers who are eligible for duty in the Federal and Provincial warning centres.
6. In addition to Canadian Army, RCN and RCAF candidates attending this course, it is proposed to offer vacancies to EMO, RCMP, DOT and other interested civilian agencies.

*W. Dare*  
(MR Dare)  
Colonel

Director of Military Training

Distribution:

Commands  
CASC  
CJATC  
JABCS  
AHQ Units  
Heads of Branches  
Heads of Directorates

10/22

ALL CORRESPONDENCE TO BE ADDRESSED:-  
THE COMMISSIONER  
ROYAL CANADIAN MOUNTED POLICE  
OTTAWA



FFB 92 1960

ROYAL CANADIAN MOUNTED POLICE  
OFFICE OF THE COMMISSIONER  
OTTAWA

REF. NO. G 355-16

February 17, 1960

Your Ref. HQ 3310-84/J9  
(DSO&P 3)

PA

Major-General A.E. Wrinch, CBE, CD,  
Director of Survival Operations,  
Room 3507, "A" Building,  
Canadian Army Headquarters,  
Ottawa, Ontario.

Re: Special Nuclear Defensive  
Warfare Indoctrination Course

Receipt is acknowledged of your communication  
of February 5. I appreciate very much your offer to  
have a member of this Force attend the course.

2. Insp. G.W. Mudge has been selected to attend  
and I am asking this Officer to communicate direct with  
a member of your staff as to joining arrangements, etc.

(2)

DSO & P

A.E. WRINCH  
Major-General  
M.G.S.

G.W. Harvison,  
Deputy Commissioner.

22 FEB 1960

For file

7



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HQ 3310-84/J9  
(DSO&P 3)

ARMY HEADQUARTERS  
OTTAWA Ont, Feb 60

The Commandant,  
Canadian Civil Defence College,  
Arnprior, Ontario.

Attention: Chief Instructor

Special Nuclear Defensive  
Warfare Indoctrination Course

1. The Army considers that there is a need for a special indoctrination course for officers employed as Nuclear Staff Officers at Army Command and Area Headquarters and for other officers employed on survival operations who deal with fallout prediction, fallout plotting and the National Survival Attack Warning System. At the present time, there is no course that provides these prerequisites and, in addition, gives sufficient instruction in DND responsibilities in survival operations, organization, functions and communications of the National Survival Attack Warning System.

2. Accordingly, we have requested the Tri-Service Committee on ABC Training to organize a special course at the JABC School, Camp Borden, to be conducted from 28 Mar - 14 Apr 60, inclusive. The scope of the course will cover the following:

a. National Survival Attack Warning System

- (1) Air and missile threat
- (2) DND responsibilities
- (3) Organization, functions and communications of the National Survival Attack Warning System and Nuclear Detonation and Fallout Reporting Systems

b. Meteorology

- (1) Organization of Weather Services
- (2) The atmosphere, general circulation and weather systems
- (3) Preparation and use of weather maps, surface and upper air
- (4) Wind, surface and aloft
- (5) Instrumentation, units, codes

.../2

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- 2 -

(6) Climatology

(7) Fallout

c. Nuclear Weapons Effects

(1) Nuclear theory (limited)

(2) KT and MT weapons

(3) Application of weapons effects  
(USDA Pam 39-1 and TM 23-200)

(4) Target estimation (defensive aspects)

(5) Non-met aspects of residual radiation

(6) Integration of met and weapons effects

d. Visits

The last day of the course, 14 Apr, to be spent as follows:

(1) St Hubert - half day on the air defence organization and the National Survival Attack Warning System(2) Dorval - half day at the DOT Central Analysis Office to cover weather make-up.

## e. Instruction to be given by the staffs of JADC School, the Directorate of Survival Operations and Plans, the Directorate of Weapons and Development, the Army Staff Meteorologist and the Directorate of Scientific Intelligence, DRB.

3. It is planned that this course will be the forerunner of similar ones to be conducted twice yearly, probably in the Spring and Fall. We think it is most important to build up a reserve of officers for Headquarters establishments at Army, Commands and Areas who, having been exposed to sufficient basic theory and practical experience, will have a complete understanding of information available to the Nuclear Staff Officer and will be able to make intelligent use of it.

4. It seems to us that some governmental departments and the RCN and RCAF might derive value from having key officers attend these courses. The Army Staff Meteorologist has indicated that DOT met officers, who will be integrated in Provincial Warning Centres, will be nominated. It is thought that it would be to mutual advantage if the Canadian Civil Defence College were to be represented. A common aim is a common cause.

5. If you are interested, could you provide a nomination for a representative for the course that gets under way on 28 Mar. Details of Joining Instructions, etc, will be furnished by DSO&P and the Director of Military Training, in due course.

.../3

RESTRICTED


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RESTRICTED

RESTRICTED

- 3 -

6. This confirms telephone conversation Lt Col Haley of DSO&P and Mr Smith, of a recent date.

  
(AE Wrinch)  
Major-General  
Major-General Survival

RBH/2-3010/er

RESTRICTED

RESTRICTED

HQ 3310-84/J9  
(DSO&P 3)

ARMY HEADQUARTERS  
OTTAWA Ont, FEB 1960

The Director,  
Emergency Measures Organization,  
Privy Council Office,  
East Block,  
Parliament Buildings,  
Ottawa, Ontario.

Special Nuclear Defensive  
Warfare Indoctrination Course

1. The Army considers that there is a need for a special indoctrination course for officers employed as Nuclear Staff Officers at Army Command and Area Headquarters and for other officers employed on survival operations who deal with fallout prediction, fallout plotting and the National Survival Attack Warning System. At the present time, there is no course that provides these prerequisites and, in addition, gives sufficient instruction in DED responsibilities in survival operations, organization, functions and communications of the National Survival Attack Warning System.

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b. Intecology

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- (3) Preparation and use of weather maps, surface and upper air
- (4) Wind, surface and aloft
- (5) Instrumentation, units, codes
- (6) Climatology
- (7) Fallout

.../2.

- 2 -

c. Nuclear Weapons Effects

- (1) Nuclear theory (limited)
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- (3) Application of weapons effects (USDA Pam 39-1 and TM 23-200)
- (4) Target estimation (defensive aspects)
- (5) Non-met aspects of residual radiation
- (6) Integration of met and weapons effects

d. The last day of the course, 14 Apr, to be spent as follows:

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e. Instruction to be given by the staffs of JABC School, the Directorate of Survival Operations and Plans, the Directorate of Weapons and Development, the Army Staff Meteorologist and the Directorate of Scientific Intelligence, DNB.

3. It is planned that this course will be the forerunner of similar ones to be conducted twice yearly, probably in the Spring and Fall. We think it is most important to build up a reserve of officers for Headquarters establishments at Army, Commands and Areas who, having been exposed to sufficient basic theory and practical experience, will have a complete understanding of information available to the Nuclear Staff Officer and will be able to make intelligent use of it.

4. It seems to us that some governmental departments and the RCN and RCAF might derive value from having key officers attend these courses. The Army Staff Meteorologist has indicated that DCF met officers, who will be integrated in Provincial Warning Centres, will be nominated. It is thought that it would be to mutual advantage if the Emergency Measures Organization were to be represented. A common aim is a common cause.

5. If you are interested, could you provide a nomination for a representative for the course that gets under way on 28 Mar. Details of Joining Instructions, etc, would be furnished by DSO&P and the Director of Military Training, in due course.

6. This confirms telephone conversation Lt Col Haley of DSO&P and Mr Morrison, of a recent date.

  
(AE Frinch)  
Major-General  
Major-General Survival

RBH/2-3010/cc

RESTRICTED

000179

RESTRICTED

HQ 3310-84/J9  
(DSO&P 3)

ARMY HEADQUARTERS  
OTTAWA Ont, \ FEB 60

The Commissioner,  
Royal Canadian Mounted Police,  
Room B 323,  
RCMP Headquarters,  
Tremblay Road,  
Ottawa, Ontario.

Attention: Inspector G.W. Mudge

Special Nuclear Defensive  
Warfare Indoctrination Course

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- (5) Instrumentation, units, codes



- 2 -

(6) Climatology

(7) Fallout

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4. It seems to us that some governmental departments and the RCN and RCAF might derive value from having key officers attend these courses. The Army Staff Meteorologist has indicated that DOT met officers, who will be integrated in Provincial Warning Centres, will be nominated. It is thought that it would be to mutual advantage if the Royal Canadian Mounted Police were to be represented. A common aim is a common cause.

5. If you are interested, could you provide a nomination for a representative for the course that gets under way on 28 Mar. Details of Joining Instructions, etc, would be furnished by DSO&P and the Director of Military Training, in due course.

.../3

- 3 -

6. This confirms telephone conversation Lt Col Haley of DSO&P and Inspector Mudgo, of a recent date.

  
(AE Urinch)  
Major-General  
Major-General Survival

RBH/2-3010/th

RESTAING

M E M O R A N D U M

①

HQ 3310-84/J9  
(DSO&P 3)

/ Feb 60

Director

Special Nuclear Defensive Warfare  
Indoctrination Course

1. Attached are letters for signature, addressed to
  - a. Director, EMO
  - b. Commandant, CDC
  - c. RCMP, attention Inspector Mudge.

They are invitations to nominate representatives for the Special Course we have requested at the JABC School from 28 Mar to 14 Apr incl.

2. DMT is dealing directly with DGAP, RCN, RCAF and the Staff Meteorologist for candidates from Army, Navy, Air Force and DOT, respectively.

3. MT 5 has informed me that the request for the course went before the Sub-Cttee of the Joint Trg Cttee on 29 Jan, and was approved in principle. The Joint Trg Cttee will now review the Sub-Cttee's recommendation, but this is considered a formality. DMT will give us the final word very shortly.

4. RCAF has expressed great interest in the course, and will request eight vacancies.

②

Director

You may wish to  
sign these

*[Signature]*

(S. J. HARRISON)  
Lt-Col

FEB - 2 1960

*[Signature]*  
(RB Haley)  
Lt-Col  
(DSO&P 3)

③

SO,

Rewritten, as per our  
conversation, so you may  
now sign for the MGS.

*[Signature]*  
4 Feb 60 SO<sub>3</sub>

HQS 3310-84/J9 (MT 5B)  
BDF 5-0-9-1

*CRPA*

MEMORANDUM

Feb 60

ISCJT

Special Nuclear Defence Staff Officers Course

1. At the 6th meeting of the ABCTSC meeting members were acquainted with the Army's need for a Special Nuclear Defence Staff Officers Course because of its National Survival commitments.
2. It was agreed by all members that there was a need for such a course (to be given once a year).
3. May authority be given for the JABCS to run this course *please*

*fr*  
Secretary  
ABCTSC

MEMORANDUM

PA  
HQ 3310-84/J9  
(DSO&P 3)

/ Feb 60

Director

Special Nuclear Defensive Warfare  
Indoctrination Course

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  - b. Commandant, CDC
  - c. RCMP, attention Inspector Mudge.

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4. RCAF has expressed great interest in the course, and will request eight vacancies.

RBH  
(RB Haley)  
Lt-Col  
(DSO&P 3)

RBH/2-3010/er

RESTRICTED

MEMORANDUM

PA  
↓

HQ 3310-84/J9 (DSO&P 3)


29 Jan 60

DMT

Attn: MT 5

Special Nuclear Defensive Warfare Indoctrination Course  
JABCS - Camp Borden

1. Please refer to HQ 3310-84/J9 (DSO&P) dated 21 Jan 60, para 7.
2. Attached are the Training Standards, Syllabus of Training and Weekly Time Table, as prepared by the JABC School. Please note that only the original of each was received from the School, attached hereto.

 (LE Kenyon)  
Colonel  
DSO&P

RBH/2-3010/th

①



IN REPLY PLEASE QUOTE

NO. JABCS/3310-8



# Department of National Defence

THE JOINT ATOMIC BIOLOGICAL AND CHEMICAL DEFENSIVE WARFARE SCHOOL

CAMP BORDEN Ontario 26 Jan 60

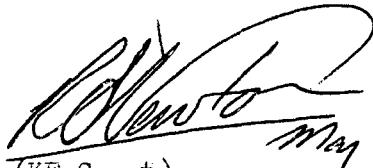
DSO & P  
Army Headquarters  
OTTAWA Ontario

Attention: Lt-Col RB Haley

Nuclear Defence Staff Officers Course

Refers to	DSO & P
JAN 27 1960	
File No.	3310-84/89
Chgd to	D.M.T. 27 Jan

1. Reference the conference held in DSO & P 19 Jan 60 to discuss the marginally noted course.
2. Herewith as requested, are the proposed training standards, syllabus of training and weekly time-table.

  
(KE Grant)  
Commander RCN  
Commandant

MEMORANDUMHQ 3310-81/J9 (MT 5)  
BDF 5-2-0

16 Jan 60

*PA CR*Special Nuclear Defensive Warfare Indoctrination Course  
JABCS - Camp Borden

1. Reference is made to para 2(a) of the proposed agenda for the 6th Meeting of the ABCTSC.
2. Attached are:
  - a. Memorandum to DMT requesting a special 3 weeks course.
  - b. Description of this special course.
3. Will you please be prepared at the ABCTSC Meeting to comment on this request. It should be borne in mind that more than one such special course may be required.

*Richard C. V.*  
(MR Dare)  
Colonel

Director of Military Training

Distribution:D Sea  
DNT  
DGT  
DNDO

M E M O R A N D U M

HQ 3653-84/J9 (DWD 3)

8 Jan 60

DSO&P

Special Indoctrination Course  
for Nuclear Staff Officers

1. DWD 3 comments on the Draft outline of the subject course as prepared by DSO&P, follow:

Para 6, first sentence, suggest the following:

"The course should be designed to provide sufficient basic theory and practical experience to ensure complete understanding and intelligent use of information available to the Nuclear Staff Officer".

Para 6.b. recommend the following:

"Meteorology". Three days instruction (plus visit to DORVAL) to cover the following:

- (1) Organization of Weather Services.
- (2) The atmosphere, general circulation and weather systems.
- (3) Preparation and use of weather maps, surface and upper air.
- (4) Wind, surface and aloft.
- (5) Instrumentation, units, codes.
- (6) Climatology.
- (7) Fallout. (4 lectures plus one full day on plotting exercises).

2. A detailed outline of a suggested 24 lecture course in meteorology is attached.

MGH/6-6537/ms

*John Rolfe*  
(G) Rolfe  
Colonel  
Director of Weapons and Development

METEOROLOGY FOR NUCLEAR STAFF OFFICERS  
(24 lectures)

1. Introduction:
  - a. applications of meteorology to nuclear warfare, nuclear defence and survival operations;
  - b. outline of minimum desirable meteorological education (of Nuclear Staff Officers) required for intelligent use of information supplied, to FMCs now and in the future by professional meteorologists in the Canadian Weather Service.
2. Organization:
  - a. the Meteorological Branch of the DOT;
  - b. DND Weather Services and their relation to the National Service;
  - c. coordination with US Weather Services, NATO and JMO;
  - d. Meteorological Communication Systems in peace and war, teletype, facsimile and V/T.
3. The Atmosphere.
  - a. Composition, troposphere, stratosphere.
  - b. Atmospheric pressure and its measurement;
  - c. Lapse rates, stability and instability.
4. The Surface Weather Map
  - a. observing station network, parameters reported; units; station model and plotting procedures.
  - b. construction of the surface weather map.
  - c. Relation of wind and isobars.
5. Air Masses and Fronts
  - a. definition;
  - b. Three Dimensional Structure;
  - c. Depiction on the Surface Weather Map.
  - d. Typical air mass and frontal weather;
  - e. Weather Map Symbols

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6. General Circulation of the atmosphere:

- a. Causative factors;
- b. circulation patterns, surface, troposphere and stratosphere;
- c. seasonal trends.

7  
and  
8 Wind

- a. Geostrophic and gradient wind, with brief explanation of pressure gradient force, coriolis force and centrifugal force;
- b. Variation of wind with altitude, "thermal" wind;
- c. surface friction and topographic effects, local winds;
- d. The Jet Stream;
- e. measurement of wind velocity; pibals, rawins; instrumentation; present limitations; future requirements;
- f. reporting codes, plotting procedures;

9. Upper Level Constant Pressure Charts

- a. construction;
- b. Contours, streamlines and isotachs;
- c. use in determining wind velocity aloft;
- d. the international radiosonde and rawinsonde network

10. Forecasting the Weather

- a. movement of pressure systems, surface and aloft;
- b. elementary short range forecasting of weather and winds;
- c. basis for Extended and Long-range Forecasts;
- d. typical working day in a Canadian District Forecast Office. Preparation of wind data for the PWC.

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11. Climatology
  - a. North American weather and climate;
  - b. Climatological Statistics; weather extremes;
  - c. Services available from the Meteorological Branch,
12. Fallout
  - a. the nuclear explosion; meteorological factors affecting the nuclear cloud and fallout;
  - b. theory of fallout; basis for various systems of fallout prediction.
13. Development of Fallout prediction techniques.
  - a. Mean vector wind method - data required;
  - b. US and Canadian Civil Defence method, its transmission in message form and subsequent use;
  - c. technique suggested by the Canadian Army (H Cameron) - possible development for future use, data required.
- 14-15 Detailed description of Fallout Plotting Technique as given in US DA Pamphlet 39-1.
- 16-22 Fallout Plotting Exercises based on PAM 39-1.
- 23
  - a. Meteorological Teletype Abbreviations;
  - b. Meteorological codes and messages necessary for PWC operation now and in the future.



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25-AM-239-D

DEPARTMENT OF NATIONAL DEFENCE

## TRAINING - NUCLEAR WARFARE

## STAFF OFFICERS

FOR CROSS REFERENCES SEE INSIDE COVER

ROUTING				P.A. & B.F. ENTRIES				REGISTRY ONLY	
REFERRED	REMARKS	DATE OF PASS	INITIALS	DATE OF P.A.	INITIALS	DATE OF B.F.	CANCEL B.F.	DATE RECEIVED	INSPECTED
DMT 5 w. Papers		10/1/60	J	10/1/60	J			MAY 2 - 1960	
DSO 4P (4) w. Papers		10/1/60	J		Dir			AUG 10 1960	
SPers WITH PAPERS CR AUG 11 1960				12/8/60	J			AUG 15 1960	
DMT 5 WITH PAPERS CR SEP 9 1960				9/9/60	J			SEP 12 1960	
DMT 5 WITH PAPERS CR SEP 13 1960				20/9/60	J			SEP 21 1960	
DMT Late BF 20-9-60		20-9-60	J		B.S.			SEP 21 1960	
DMT PER BF CR SEP 27 1960			J					NOV 18 1960	
DMT per Request		17/11/60	J	18/11/60	J			DEC 28 1960	
DMT PER REQUEST CR DEC 22 1960			PB	28/12/60	B				
DMT WITH PAPERS CR JAN 4 - 1961									
DSO 4P (4) 2 p/s		5/1/61	B						
DMT 5 Memo p/s		Feb 61	W						
CR. New cover plan and returned to DMT								JUN 12 1961	

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