THE LIBRARY OF PARLIAMENT

CANADA. DEPT. OF NATIONAL DEFENCE. PARLIAMENTARY RETURNS OFFICE.

Index, Special Committee on Defence, 1963.

BIBLIOTHEO

PARLEMENT

J 103 H7 1963 D4 A1 Index Canada. Dept. of National
Defence. Parliamentary
Returns Office.
Index, Special Committee
on Defence, 1963.

NAME - NOM
NAME - NOM

Date Loaned

	in the last				
-	STATUTE OF THE PARTY OF THE PAR	Charles at			
No.		ATTENDED			
	THE RESERVE OF THE PARTY OF THE	THE WILL BY SELECTION			

CAT. NO. 1138

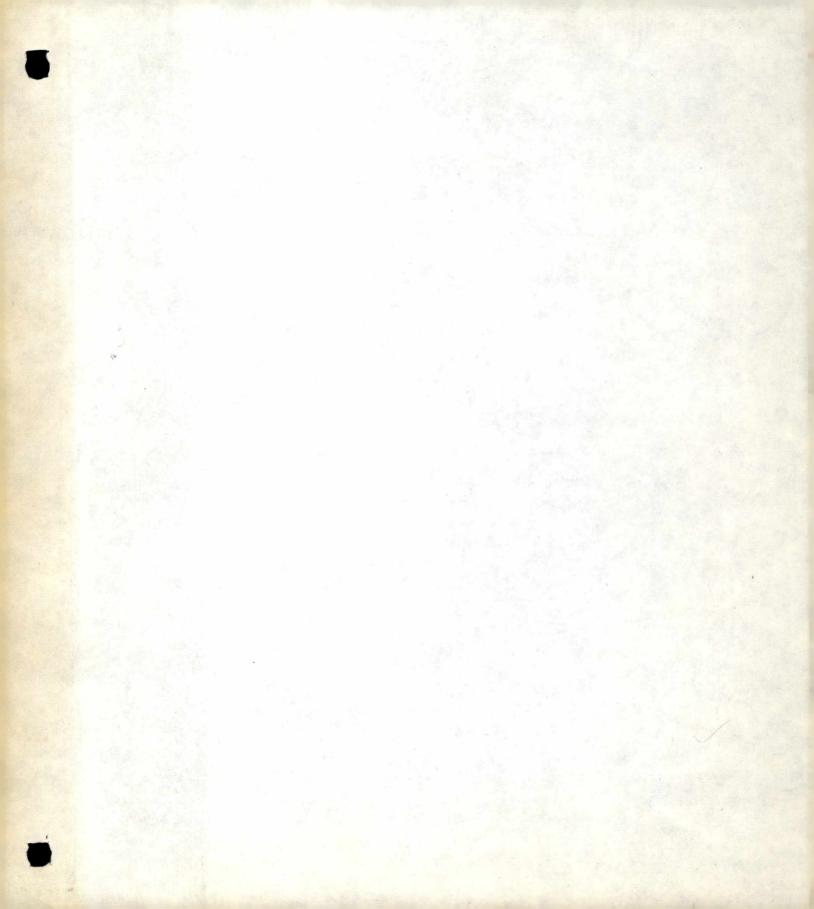
507763 107964 104168

INDEX

SPECIAL COMMITTEE ON DEFENCE

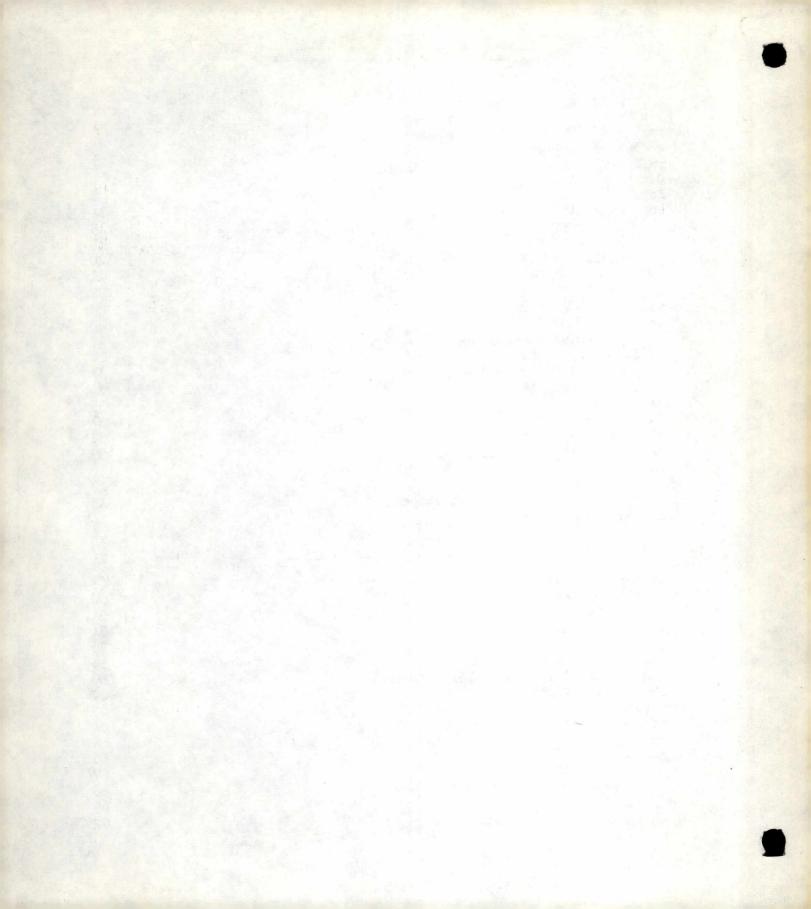
1963

Parliamentary Returns

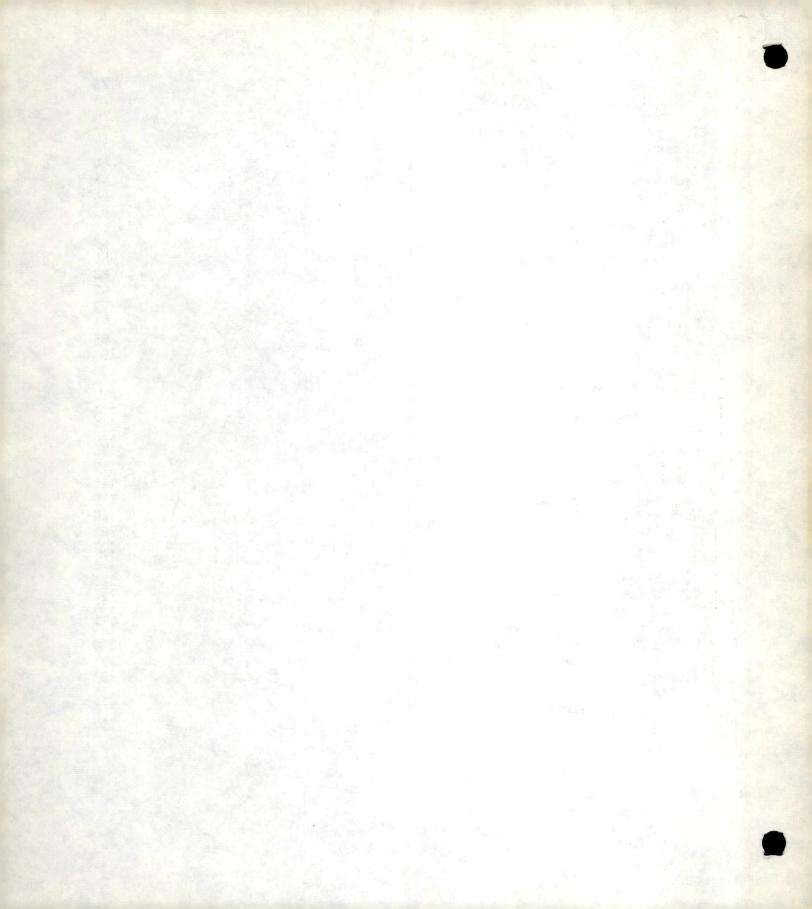


PRINCIPAL HEADINGS USED IN INDEX

SUBJECT	
Aircraft - Helicopters Aircraft Production	
Air Division - 1st Air Force	
Air Force - Auxiliary	
Army - Aircraft	
Army - Militia	
Awards	
Bilingualism	
Brigade, 4th	
Cadets	
Canada-Nato Production Sharing	
Canada's Defence Policy Canada's Defence Policy - Nato	
Canada—U.K. Co-operation	
Canada-U.S. Co-operation	
Canada-U.S. Production Sharing	
Canadian Services Colleges	
Chaplain Services	
Chiefs of Staff .	
Civilian Personnel	
Clothing, Equipment and General Stor	res
Committees	
Commonwealth Communications	
Communications	and the second s
Continental Defence - General	
Continental Defence - BMELS	
Continental Defence - Norad	
Continental Defence - Radar Lines	
Cuba	
Defence Research and Development	
Departmental Administration and Orga	anization
Department of Defence Production	
Dependents	
Disarmament	Was a second of the second of
Expenditures	
Far East	
Food	
Glassco Report	1975년 1일 : 1일
Guided Missiles	
Guided Missiles - Honest John	



Cuided Missiles - ICBM	73
Guided Missiles - Satellites	75
Highways, Defence	76
Irregularities and Incidents	77
Manpower	78
Manpower, Compulsory Military Training	80
Manpower, Recruiting	81
Manpower - Strengths	82
Maritime Command	83
Married Quarters	84
Medical Services	85
Movements and Transfers	86
NATO	88
NATO, Germany	92
NATO - Mutual Aid	93
NATO Production Sharing	94
Navy	95
Navy Shipbuilding	103
Nuclear Warfare	105
Pay and Allowances	110
Political	111
Public Relations	112
Russia	113
Search, Rescue & Emergencies	116
Security	117
Standardization	. 118
Statutes and Legal Affairs	119
Survival Operations	120
Training	121
Tri-Service	122
Truce Teams	124
U.K. Armed Forces	125
U.K. Defence Policy	126
United Nations	127
United Nations Congo Force	129
United Nations Emergency Force	130
U.S. Armed Forces	131
U.S. Defence Policy	133
Visits	135
Weapons and Equipment	136
Womens' Services	137



SPECIAL COMMITTEE ON DEFENCE

CHRONOLOGICAL SUBJECT INDEX

AIRCRAFT

July 9. 1963

Navy - helicopters - CNS - pp. 97, 101, 102 Navy - Tracker (CS2F) aircraft - CNS - p. 101

October 29, 1963 Cariboo, Hercules payload capacity - CGS - p. 613

October 31, 1963

Anti-submarine aircraft - Argus, Neptune - number - cost - CAS, Lessard, Hellyer - p. 629

l Air Div. - strike reconnaissance role - difficulty re sqdns. in France - movement of sqdns. to Germany & Belgium - vulnerability of - radius of CF104 - time for transfer & arming - exercise re for Cttee visit - Winch,

CAS, Hellyer, Smith, MacInnis - pp. 630-32

l Air Div. - strike role - a/c configured for - modifications re - use of air-to-surface missiles - change to conventional role in future - strike role exclusively nuclear - possible use of nuclear weapons on purely military targets - Lambert, CAS - pp. 632-35

Provision of a/c for conventional or limited nuclear war outside of Europe -

use of T33 and Lancaster - Smith, CAS - p. 637

Use of a/c for UN - Otter - Cariboo - need of more Cariboo - Smith, CAS - pp. 637-38

Argus, Neptune & Sonobuoys - costs - number of sonobuoys used - CAS - p. 646 Load-carrying capacity of Yukon & Hercules a/c & C119 - comparison of -MacLean, CAS - p. 647

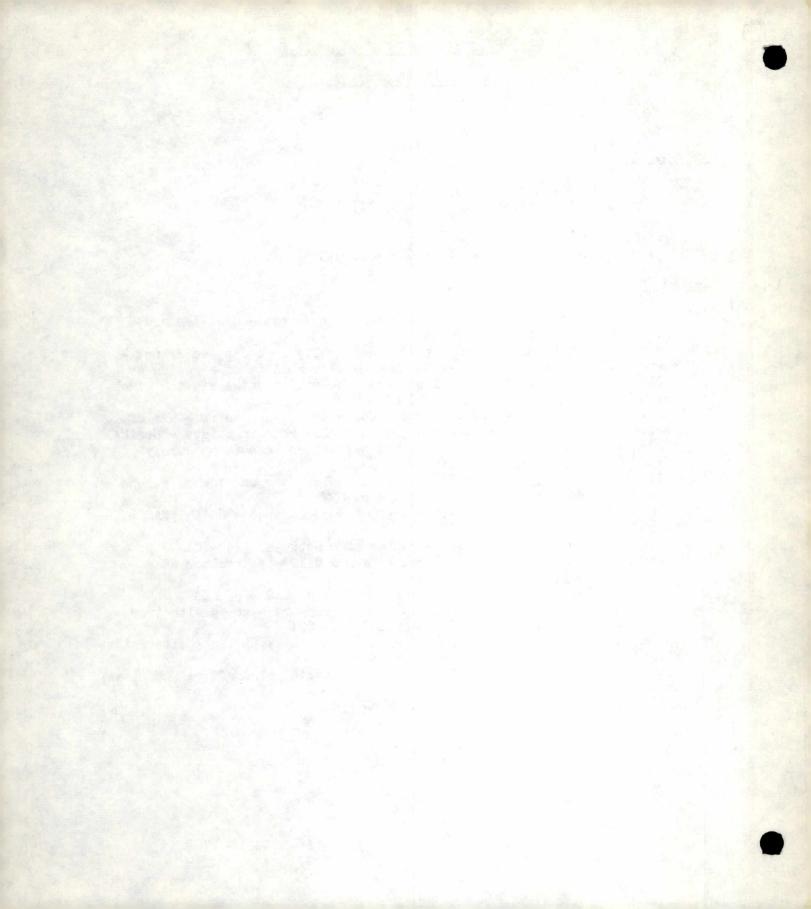
CF104 - manufacture of - spare parts for - McMillan, CAS - p. 648

Recce in Arctic - replacement of Lancaster - defence re - co-op with Army - Soviet submarine threat in - Matheson, CAS - p. 651

Strike recce role - good one - in future undertaken by VTOL a/c - alternative transport role - Matheson, CAS - pp. 651-52

Maritime Air Command commitment to SACLANT - number of aircraft re - MacLean, CAS - pp. 660-61

Cosmopolitan aircraft - use - Hahn, CAS - p. 658



AIRCRAFT - (Cont'd)

November 5, 1963

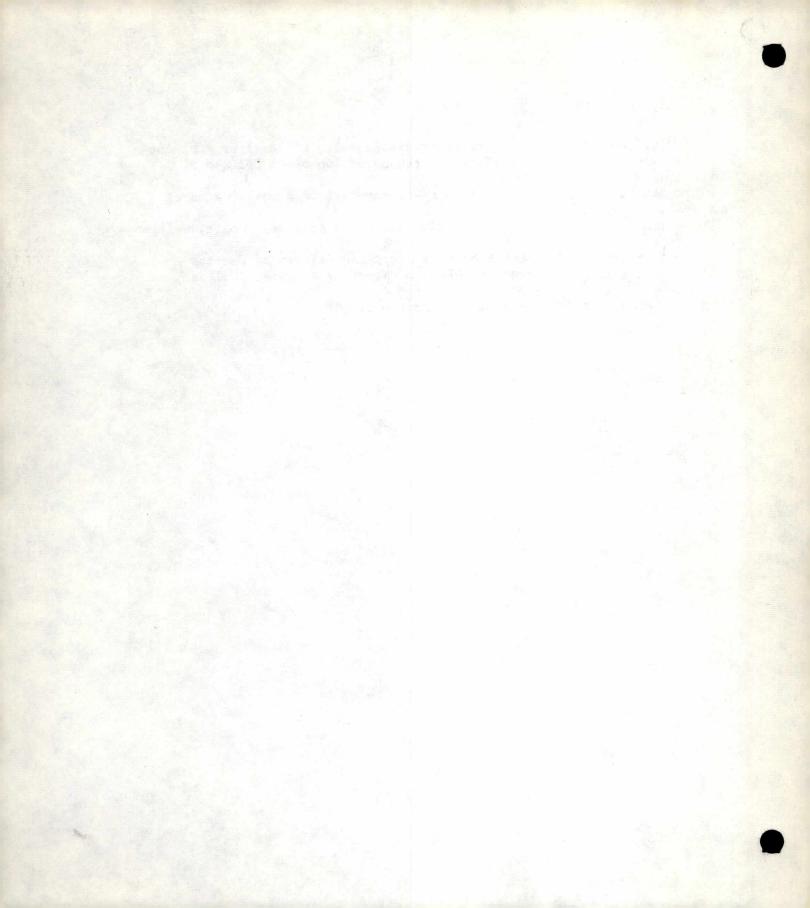
Canada-U.K. production sharing re reconnaissance drone - Hellyer - p. 666
Cancellation of additional CF104's - purchase of two-place CF104's re
training - Hellyer - p. 667

Non-purchase of additional CF101's - re-arrangement in number & size of sqdns. - Hellyer - p. 667

CF101 aircraft - production phased out - extent of service - Smith, Hellyer - p. 670

Future construction of submarines in Canada & acquisition of Oberons - production-sharing agreement re CL89 recce. drone - Ianiel, Hellyer, MacInnis - pp. 685, 687-88

Missile armament of CF101 - Smith, Hellyer - p. 687 .



AIRCRAFT - HELICOPTERS

October 10, 1963

Helicopters - Brewin, Plomer, Asselin - pp. 355, 384, 386

Navy - utilization & role of subs & helicopters on merchant ships - Churchill,

Plomer, Lloyd, Smith, Asselin - pp. 357-58, 360, 380-81, 384.

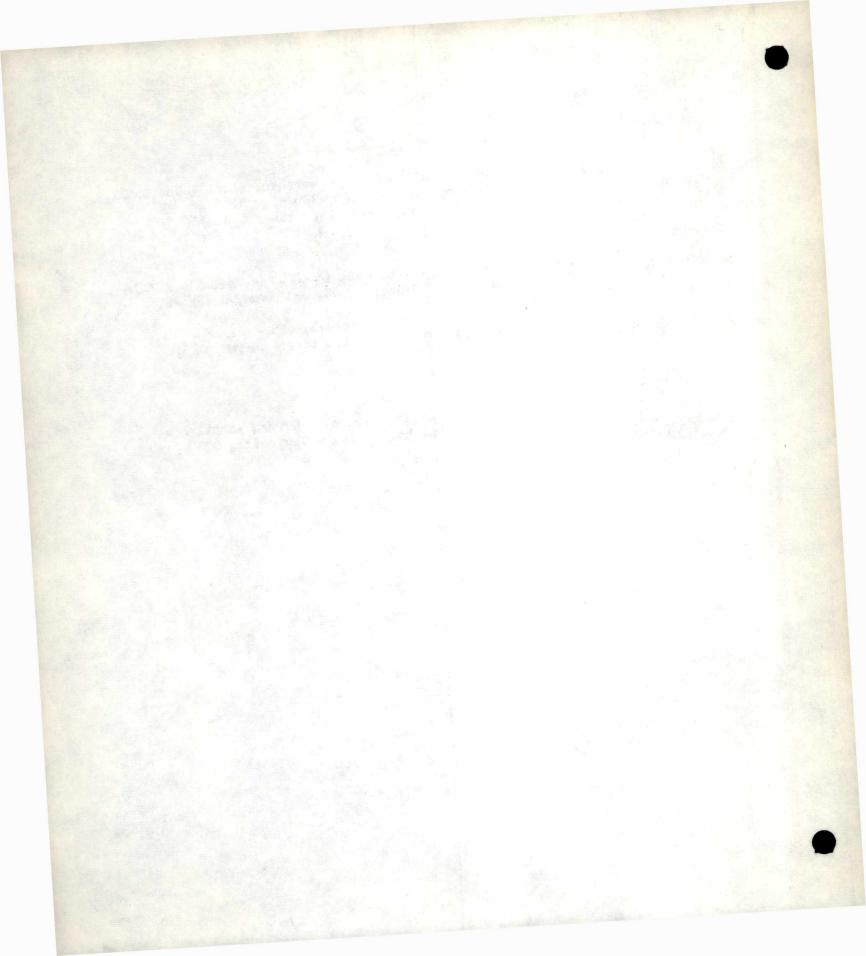
Navy - aircraft carriers with helicopters - Asselin, Plomer - p. 386

October 15, 1963

- Navy frigates helicopters for Lambert, CNS, Lloyd pp. 410-11, 415-16 GP frigates helicopters for Granger, CNS, Matheson, Deachman, Brewin pp. 424, 431
 - increased utilization of helicopters Lambert, CNS p. 426 - merchant troop carriers - fitted with helicopters - Smith, CNS, MacInnis - p. 428

October 29, 1963

Close support air cover for Brigade - utilization of - German adoption - helicopters for recce. re, development by British - Churchill, CGS - pp. 612-13.



A IRCHAFT PRODUCTION

July 4. 1963

CF101 - termination of production - Smith, Hellyer - p. 77

July 30, 1963

DDP - aircraft production program - Drury - pp. 262, 264

October 22, 1963

History of Arrow program development & subsequent cancellation - NCRAD formation - decision re - MacRae, Foulkes, Granger, MacInnis - pp. 509-10, 511 Decision re acquisition of CF104 - Foulkes, Temple - pp. 511, 518
Use of Cariboo in Europe - Smith, Foulkes - pp. 535-36

October 31, 1963

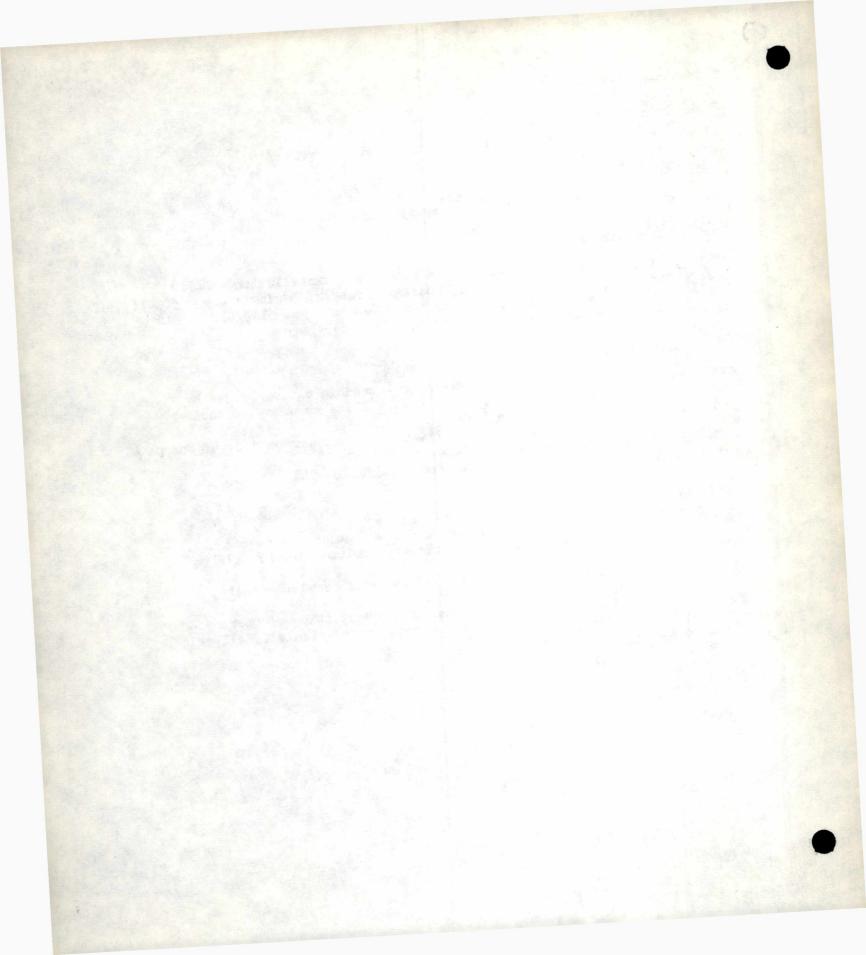
CF104 still in production - replacement re - used in various roles by
Germany - dual training re - replacement by TFX - movement to another
theatre - Smith, CAS - pp. 635-37

Provision of a/c for conventional or limited nuclear war outside of Europe use of T33 & Lancaster - Smith, CAS - p. 637

CF104 - manufacture of - spare parts for - McMillan, CAS - p. 648

November 5, 1963

Canada-U.K. production sharing re recce. drone - Hellyer - p. 666
Cancellation of additional CF104's - purchase of two-place CF104's re
training - Hellyer - p. 667
CF101 aircraft - production phased out - extent of service - Smith,
Hellyer - p. 670
Future construction of submarines in Canada & acquisition of Oberons production-sharing agreement re CI89 recce. drone - Laniel, Hellyer,
MacInnis - pp. 685, 687-88



AIR DIVISION - 1st

June 27, 1963

Role change - drop of bombs on targets - Hellyer - pp. 14, 15
Reduction of sqdns. - Hellyer - p. 14
Atomic devices - use by - Hellyer - pp. 14, 15
Nuclear bombs for - Hellyer - p. 15
Review of acquisition of additional CF104's - Hellyer - p. 19
Re-deployment of CF-104's in France - pp. 19-20
Strike role defined - Lambert, Hellyer - p. 24

July 4, 1963

Value of sqdns. in France - CCOS, Winch - pp. 62-63
Position of SACEUR re - CCOS, Winch - p. 63
Delivery of warheads to - CCOS, Winch - p. 63
Transfer of to Germany - CCOS, MacLean - p. 65
French position re - CCOS, Lambert - pp. 65-66
Limitation of air support by - CCOS, MacLean - p. 72
Strike recce. atomic role - Lambert, CCOS, McMillan - p. 74

July 16, 1963

1 Air Div. - pp. 175-177 - CAS
Role & location - CAS - pp. 175, 176, 177
Nuclear weapons - small yield - CAS - pp. 176, 177
Operational control - CAS - p. 176
Training - CAS - pp. 176, 177
Re-equipment with CF104 - CAS - p. 176
Role of 1 Air Div. - Lambert, CAS - p. 187

July 18, 1963

Scientists at 1 Air Div. - CDRB - p. 207

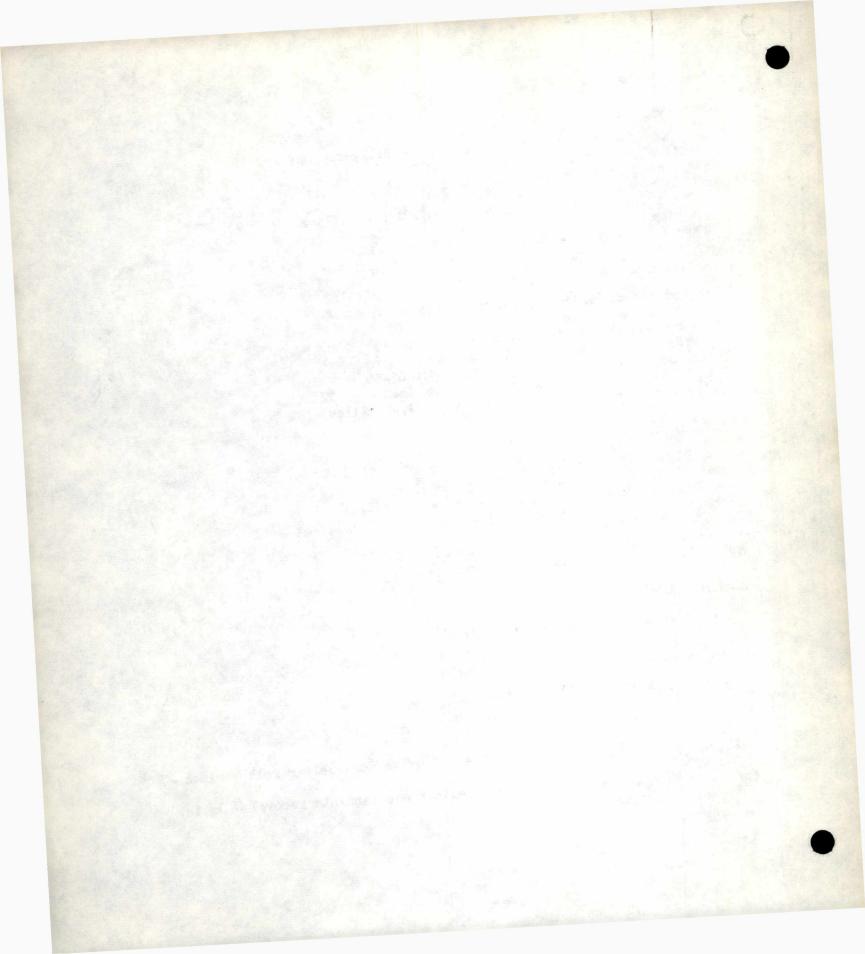
July 30, 1963

Food supply of Cdn. NATO forces - Drury - pp. 281-82

October 17, 1963

Switching half of strike force of 1 Air Div. to non-nuclear role - Winch - pp. 437-38

Forces in Europe - shorter rotation periods - dependents removal - Smith, Simonds - p. 456



AIR DIVISION - 1st (Cont'd)

October 22. 1963

Aircraft of - additional lift capacity - strike recce role of - non-use of French air bases - nuclear weapons for - Foulkes - pp. 496, 497, 499-500. Relinquishment of strike role and reorganized into transport unit for Bde. Group - strike role becoming redundant - Foulkes, Matheson - pp. 507, 533 Decision re acquisition of CF-104 - Foulkes, Temple - pp. 511, 518 Revision of Air Div. task to transport role - Foulkes - p. 512 Cdn. commitment to NATO - 1 Air Div. on US supply line - Bde on UK supply line - Foulkes, Lessard - p. 517

Threat to 1 Air Div. bases by ballistic missiles - Matheson, Foulkes, Lambert - pp. 533, 540-41

Gen. Norstad's request to have Air Div. assume strike role - Matheson, Foulkes, Smith - pp. 533-34, 536

October 24. 1963

Strike recce role for CF-104 mistake - tactical support role in lieu - Gellner, Lambert, Brewin - pp. 554-55, 561-62, 571, 576-77

October 31, 1963

1 Air Div. - strike recce role - difficulty re sqdns. in France - movement of sqdns. to Germany & Belgium - vulnerability of - radius of CF-104 - time for transfer and arming - exercise re for Cttee visit - Winch, CAS, Hellyer, Smith, MacInnis - pp. 630-32

l Air Div. - strike role - a/c configured for - modifications re - use of air-to-surface missiles - change to conventional role in future - strike role exclusively nuclear - possible use of nuclear weapons on purely military targets - Lambert, CAS - pp. 632-35

Tour of duty for personnel in 1 Air Div. - time required for training - MacRae, CAS - pp. 638-39

Strength of 1 Air Div. - number of dependents - MacRae, CAS - pp. 638-39

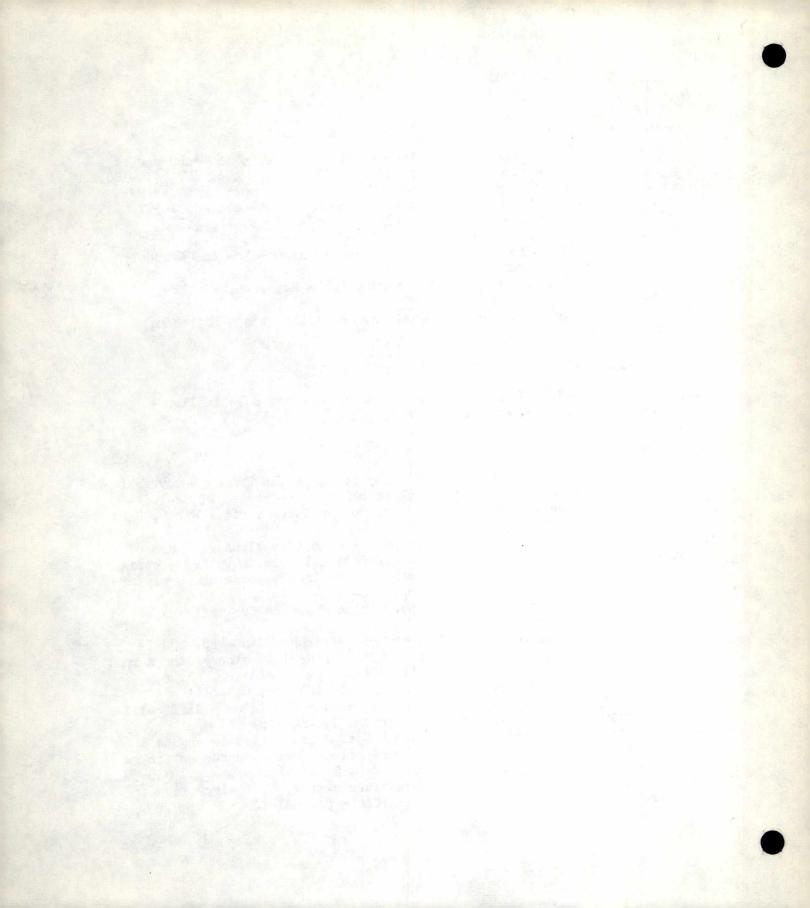
1 Air Div. - movement of sqdns. out of France for arming - increasing normal alert to reinforced alert - Churchill, CAS - pp. 642-43

Missile threat to 1 Air Div. bases - Churchill, CAS - pp. 643-44

Shifting of 1 Air Div. bases from France to Germany & Belgium - difficulties re - Permissive Action Link (PAL) - Churchill, CAS - p. 644

NATO determination re strike role - date - Cdn. commitment to - change & completion of - adoption of conventional role - Norstad's suggestion re strike role for 1 Air Div. - Matheson, CAS, Smith, Lambert - pp. 649-50

Strike recce role - good one - in future undertaken by VTOL aircraft - alternative transport role - Matheson, CAS - pp. 651-52



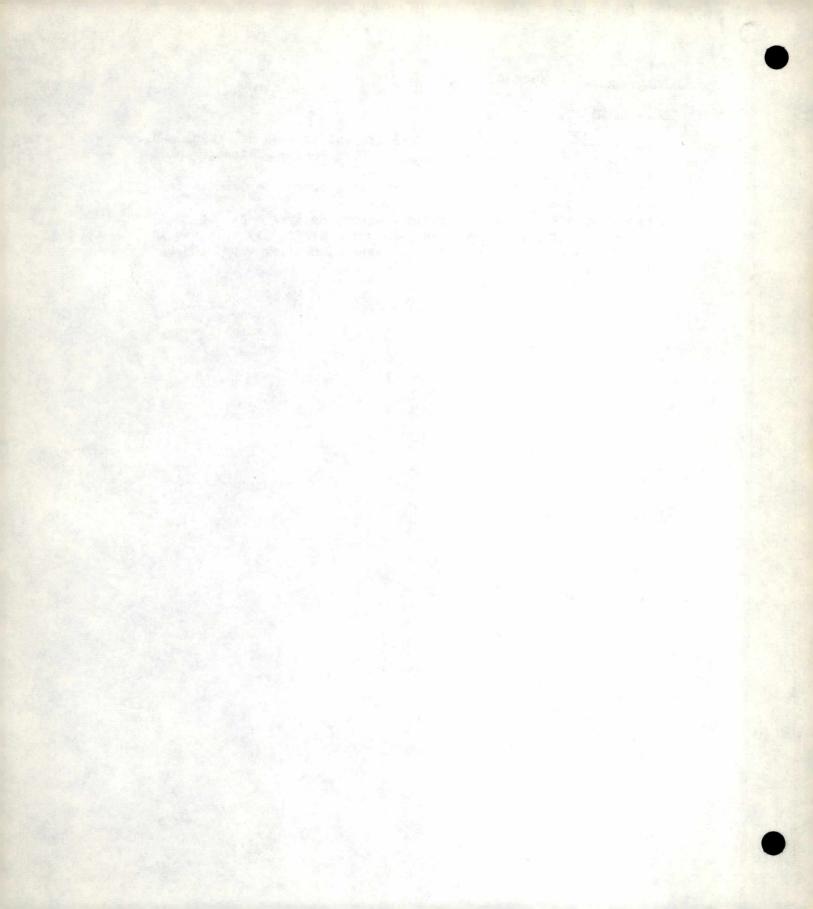
AIR DIVISION - 1st - (Cont'd)

November 5, 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF101, Honest John, CF104 & Bomarc - storage space for - Hellyer - p. 665

Cancellation of additional CF104's - purchase of two-place CF104's retraining - Hellyer - p. 667

Difficulty re Air Div. sqdns. in France - Winch, Hellyer - p. 668
Need for dispersal of 1 Air Div. bases - nuclear difficulty re bases in
France - re-examination of situation - Lessard, Hellyer - pp. 683-84



AIR FORCE

June 27, 1963

l Air Div. - role change - drop of bombs on targets - Hellyer - pp. 14, 15
Reduction of sqdns. - Hellyer - p. 14
Atomic devices - use by - Hellyer - pp. 14, 15
Cdn. contribution of Bomarc & CF101 - Hellyer - pp. 17, 18
Bomarc moved north to protect Cdn. cities - Hellyer - p. 17
Bomarc effective anti-bomber weapon - Hellyer - p. 17
Bomarc development cost - p. 17 - Hellyer
Bomarc armed with atomic warhead to be effective & cook bomb - Hellyer - p. 17
Squadrons under NCRAD - Hellyer - p. 17
CF101B - carry both conventional & nuclear (Genie & Falcon) weapons - Hellyer - p. 17
CF101 use only high explosive warheads for training - Hellyer - p. 18
Arrangements re nuclear weapons use by CF101 & Bomarc - Hellyer - p. 18
RCAF airlift for UNCF - Hellyer - p. 18

July 2, 1963

Conventional vs nuclear equipped CF101 & relative effectiveness & location - Lambert, Hellyer, Temple, Deachman - pp. 43, 46-47
CF101 equipped to carry Genie or Falcon - Deachman, Hellyer - p. 47

July 4. 1963

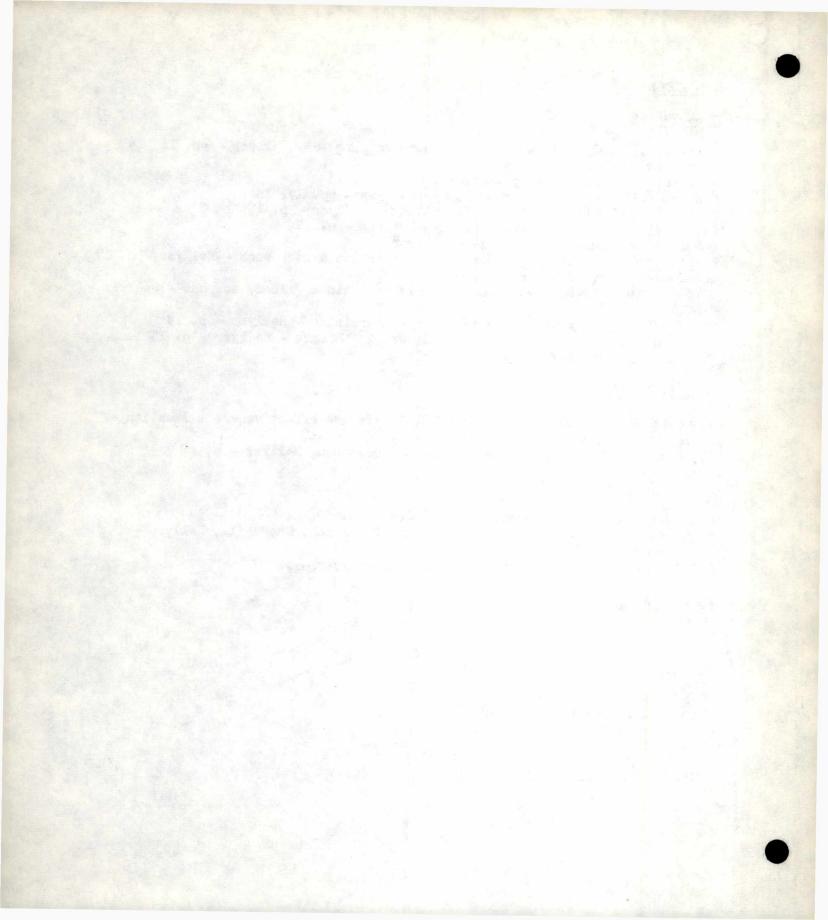
Appearance of A.F. representatives - CCOS - pp. 67, 74
CF101 acquired from U.S. - type of armament - Winch, Churchill, Hellyer - pp. 75-76, 77, 78
CF101 - termination of production - Smith, Hellyer - p. 77

July 9, 1963

Bomber threat - Churchill - p. 113

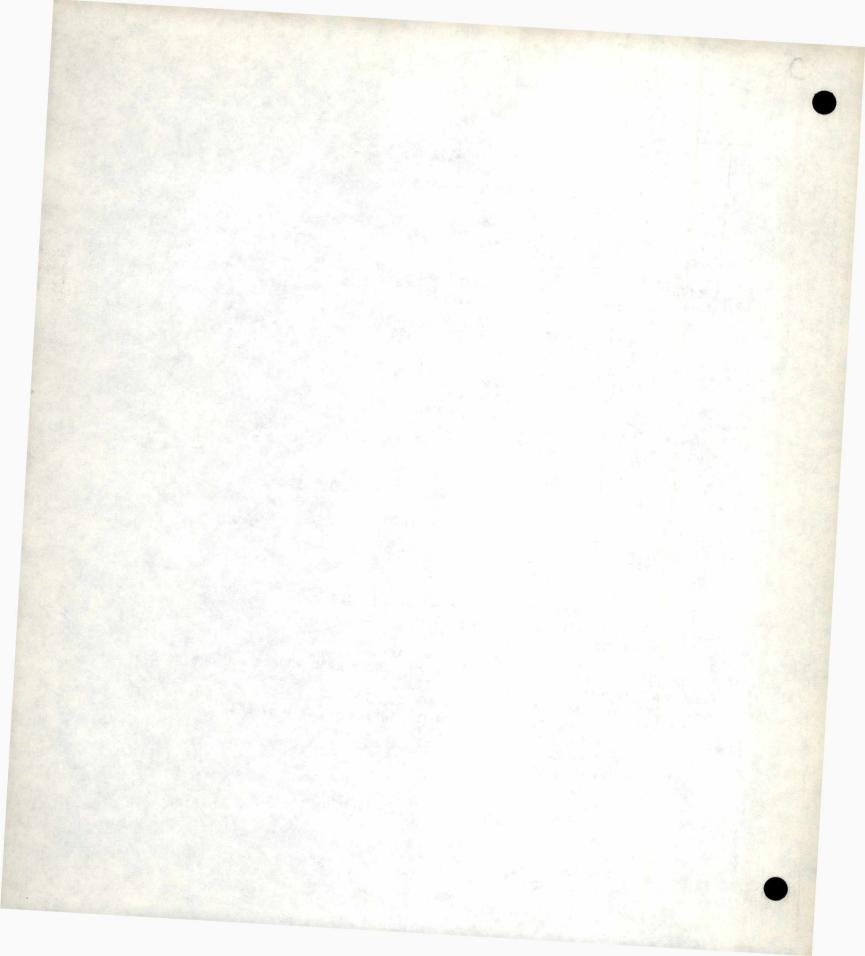
July 16, 1963

RCAF - CAS - pp. 162-63
Roles & responsibilities of - CAS
Organization - CAS
Commands - CAS
NCRAD
CF101B & armament - CAS - p. 165



July 16, 1963

Maritime Air Command - CAS - pp. 169-171 Pole - CAS - p. 169 Operational control - CAS - pp. 169-170 Assignment to SACLANT - CAS - pp. 169, 171 Chain of Command - CAS - p. 170 Aircraft - location - CAS - pp. 170-171 Co-op with CINCPAC - CAS - p. 171 Training - CAS - p. 171 Anti-sub detection - CAS - p. 171 Air Transport Command - CAS - pp. 172-173 Role - CAS - p. 172 Aircraft of - CAS - pp. 172-73 Unit location - CAS - p. 172 Training - CAS - p. 172 UN operations - CAS - pp. 172-73 Aid to civil authorities - CAS - p. 173 Air Materiel Command - CAS - pp. 177-179 Role - CAS - pp. 177-178 Composition - CAS - p. 178 Use of IBM system - CAS - p. 178 Supply pipelines - CAS - p. 178 Air Force Training - Training Command - CAS - pp. 179-180 Responsibility - CAS - p. 179 Unit location - CAS - pp. 179, 180 Types of Training - CAS - p. 179 NATO training - CAS - p. 179 Number aircrew trained - CAS - p. 179 Training of Nigerians - CAS p. 179 Procurement of Tutor jet trainer - CAS - p. 180 Tutor characteristics - CAS - p. 180 Groundcrew training - CAS - p. 180 Budget & finance operations - CAS - p. 183 Percentage on capital outlays & operations & maintenance - CAS - p. 183 Management practices - CAS - pp. 183-184 "PERT" management techniques - CAS - p. 184 Utilization of Glassco Commission suggestion - CAS - p. 184 Aircraft - CAS - pp. 170-182 Argus - CAS - p. 170 Neptune - CAS - p. 171 Yukon - CAS - p. 173 Hercules - CAS - p. 174 Cosmopolitan - CAS - p. 174 Cariboo - CAS - p. 175 CF-104 - CAS - p. 177 Vertol helicopter - CAS - p. 181 Otter - CAS - p. 182



July 16, 1963

Deterrent role of RCAF - Churchill, Hellyer, Lambert, CAS - pp. 185, 186, 187
Radio-controlled bomber development dropped - Lessard, CAS - p. 193
Personnel strength in installations, staff colleges, etc. - MacLean, CAS - p. 186

July 18, 1963

Research - Intramural - basic & applied - defence against guided missiles. & bombers - CDRB - p. 211

October 10, 1963

Navy - construction of subs - need - for training of Navy & RCAF - Smith, Plomer, Asselin - pp. 352, 386

October 17, 1963

Disappearance of bomber and fighter role - Simonds - pp. 411-42

Bomber threat unreal in reference to ICBM attack - Brewin, Simonds - p. 452

Bomber advantage over fighter - threat with nuclear weapons - Simonds,

Brewin - pp. 453-54

Aircraft close support role - missile role re - Simonds, Churchill, Lambert - pp. 459-60

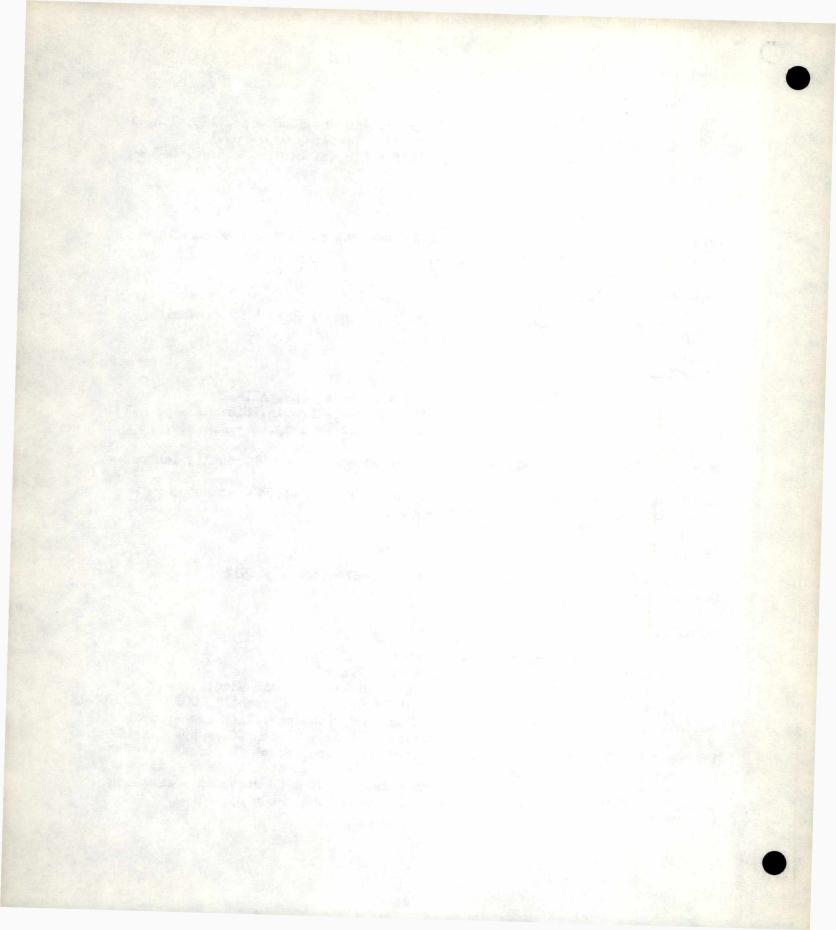
Mobile force - composition - modeled after US Marine Corps - armament re - air transport of Temple, Simonds - p. 477

October 22, 1963

Revision of Air Div. task to transport role - Foulkes - p. 512 Greater airlift capacity - Temple, Foulkes - p. 520

October 29. 1963

Bobcat transportable in Hercules aircraft - CGS - p. 592
Cariboo lifting capacity - Smith , CGS - p. 592
Close support air cover for Bde. - utilization of - German adoption - helicopters for recce re, development by British - Churchill, CGS - pp. 612-13
Mobility of Army - ship transport to disappear with heavy lift a/c - co-op with RCAF - efficient if done on tri-service set-up - Winch, CGS - pp. 614-15
Unification of ordnance & supply services - procurement of FC rifle - Air Force procurement of helicopters - food, etc. - co-op with Navy & Air Force - common supply service - comperison to UK & US services - function of DM & Scientific advisers re - Winch, CGS, Deachman - pp. 616-17



October 29, 1963

Converting Bde. to airborne role - supply set-up re - MacLean, CGS - p. 619

October 31. 1963

Movement of Bde. from North America to Europe - suitability of Hercules & Yukon - Temple, CAS - pp. 627-28

Comparison of Cariboo, Hercules & Yukon - Temple, CAS - pp. 627-28

Shift from bomber to missile threat - intelligence reports re - Hahn, CAS - p. 628

Anti-submarine aircraft - Argus, Neptune - number - cost - CAS, Lessard, Hellyer - p. 629

Anti-submarine surveillance - use of sonobuoys - range of detection - Lessard, CAS, McMillan, Laniel - pp. 629, 630

Soviet development of submarine ballistic missiles - CAS - p. 629

l Air Div. - strike recce role - difficulty re sqdns. in France - movement of sqdns. to Germany & Belgium - vulnerability of - radius of CF-104 - time for transfer and arming - exercises re for Cttee visit - Winch, CAS, Hellyer, Smith, MacInnis - pp. 630-32

1 Air Div. - strike role - aircraft configured for - modifications re - use of air-to-surface missiles - change to conventional role in future - strike role exclusively nuclear - possible use of nuclear weapons on purely military targets - Lamberts, CAS - pp. 632-35

Limited use of nuclear weapons - escalation of - constraint re use - Lambert, CAS - pp. 634-35

OF-104 still in production - replacement re - used in various roles by Germany - dual training re - replacement by TFX - movement to another theatre - Smith, CAS - pp. 635-37

Provision of a/c for conventional or limited nuclear war outside of Europe - use of T33 and Lancaster - Smith, CAS - p. 637

Use of a/c for UN - Otter - Cariboo - need of more Cariboo - Smith, CAS - pp. 637-38

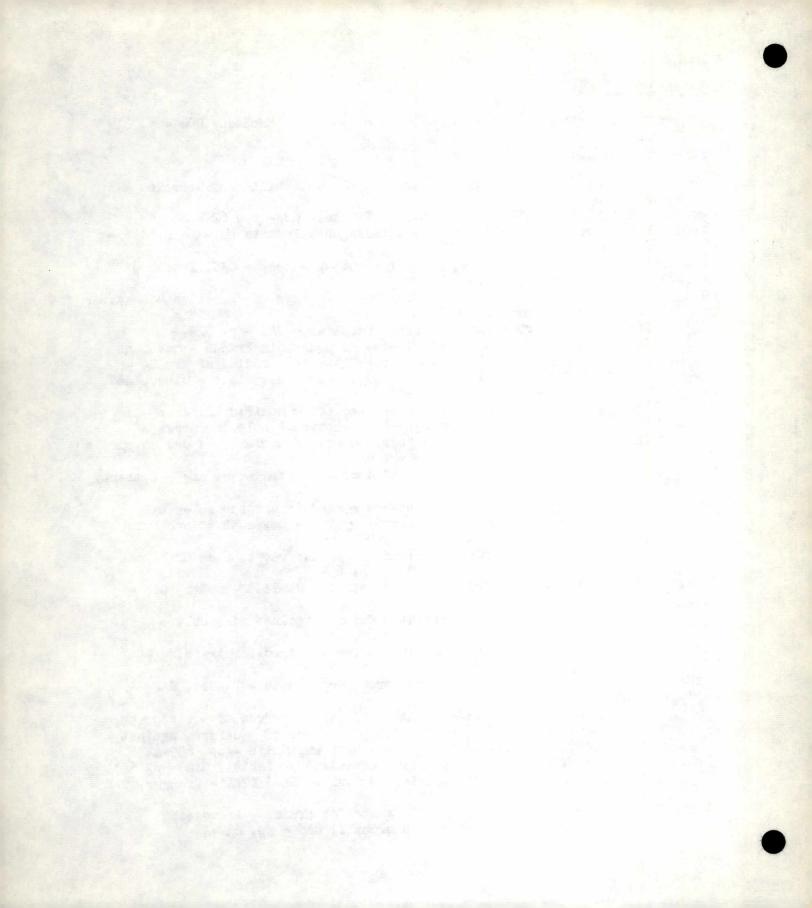
Nuclear missile-firing submarine threat - defence against difficult - MacRae, CAS - p. 638

Tour of duty for personnel in 1 Air Div. - time required for training - MacRae, CAS - pp. 638-39

Strength of 1 Air Div. & 4th Bde. - number of dependents - MacRae, CAS - pp. 638-39

ICBM, ballistic missile submarine & bomber threats - degree of - statement by US Def. Sec. re - hardening of sites - accuracy of - defence against - Churchill, CAS, MacInnis, Lambert, Hahn, Granger, Smith - pp. 639-42
Reduction in number of air force sqdns. - efficiency - Laniel, CAS - p. 641
Supersonic bomber development in Russia, US & UK - TSR-2 &TFX - Granger, CAS - pp. 641-42

l Air Div. - movement of sqdns, out of France for arming - increasing normal alert to reinforced alert - Churchill, CAS - pp. 642-43



October 31, 1963

Missile threat to 1 Air Div. bases - Churchill, CAS - pp. 643-44

Shifting of 1 Air Div. bases from France to Germany & Belgium - difficulties re - Permissive Action Link (PAL) - Churchill, CAS - p. 644

Deterrent - value of tactical forces in Europe & strategic forces in US & UK re escalation into nuclear war - Churchill, CAS - pp. 644-45

Argus, Neptune & Sonobuoys - costs - number of sonobuoys used - CAS - p. 646
Effective defence against Russian surface-launching ballistic missile submarines - CAS - p. 646

Recce ability of Maritime Air Command & search & Rescue - MacLean, CAS - pp. 646-47

Load-carrying capacity of Yukon & Hercules a/c & Cll9 - comparison of - MacLean, CAS - p. 647

US tests re nuclear vs conventional anti-submarine arms - McMillan, CAS - p. 648

CF-104 - manufacture of - spare parts for - McMillan, CAS - p. 648

NATO determination re strike role - date - Cdn. commitment to - change & completion of - adoption of conventional role - Norstad's suggestion re strike role for 1 Air Div. - Matheson, CAS, Smith, Lambert - pp. 649-50

NORAD - renegotiation of - Matheson, CAS - pp. 650-51

Recce in Arctic - replacement of Lancaster - defence re - co-op with Army - Soviet submarine threat in - Matheson, CAS - p. 651

Strike recce role - good one - in future undertaken by VTOL a/c - alternative transport role - Matheson, CAS - p. 651-52

Transport role - northern recce & maritime roles for RCAF - CAS, Matheson - p. 652

Aerial recce re submarines - research re - nuclear depth charges for - Granger, CAS - p. 652

Utilization of civilian air carriere - Smith, CAS - pp. 652-53

Use of Bomarc against aircraft-launched missile - vulnerability of Bomarc site to missile attack - Smith, CAS - p. 653

Individual service training establishments - re dadar & signal training - business training specialization - Smith, CAS - pp. 653-55

Separation of civilians employed in Services & personnel officers - Smith, CAS - p. 654

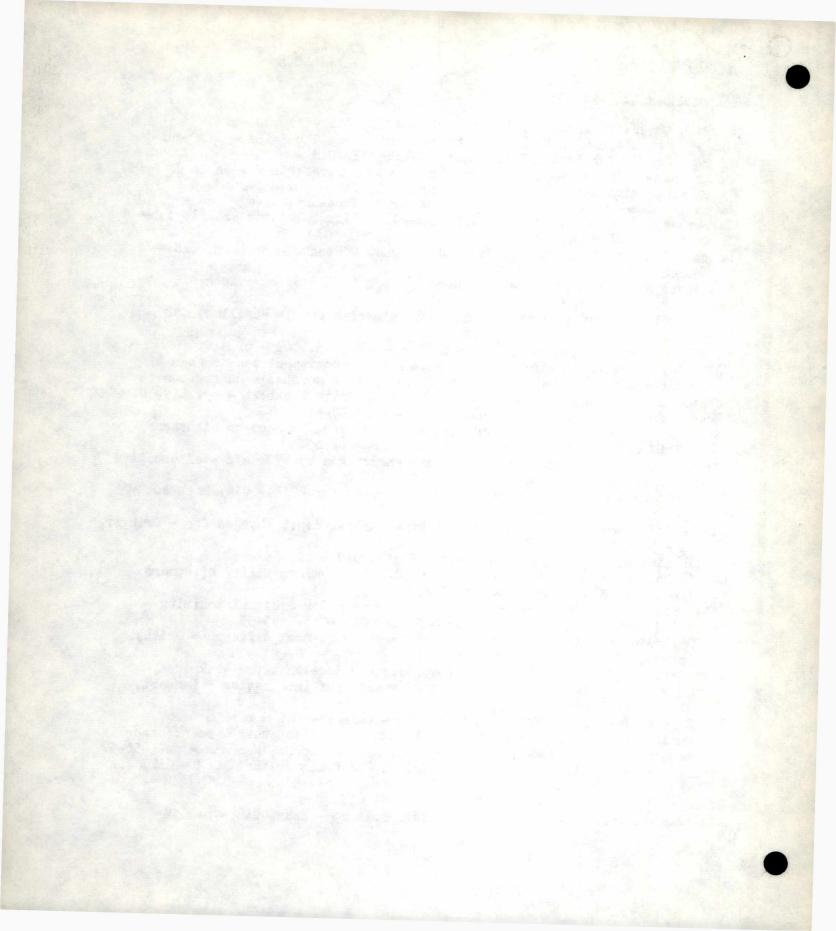
Integration - increase of personnel & costs - reduction after shakedown, i.e., U.K. - studies re - joint staff example of integration - Lambert, CAS - pp. 655-656

Tri-Service Equivalent Board - economy re - Lambert, CAS - p. 656

Common logistics field - efforts to cut down pay & allowances & maintenance
costs vs capital expenditure - Lambert, CAS, Matheson, MacLean - pp. 656-57

Bomber threat & role of air force in future - defence against ICBM - CAS, Hahn - pp. 656-58

Cosmopolitan aircraft - use - Hahn, CAS - p. 658
Air Force Auxiliary - function - survival role re - Hahn, CAS - p. 658



October 31. 1963

Integration of Services - advantages & disadvantages - joint HQ staff present co-op of Services re - fields in which progress made - air force recommendations to Minister re - uniform re - Lessard, CAS - pp. 658-60 Summer uniforms without hat - Patterson, CAS - p. 660 Russian nuclear submarine capability & threat - Patterson, CAS - p. 660 Maritime Air Command commitment to SACLANT - number of aircraft re -MacLean, CAS - pp. 660-61 Roles re Canada-US region, NATO & UN - budget limitations re - use of

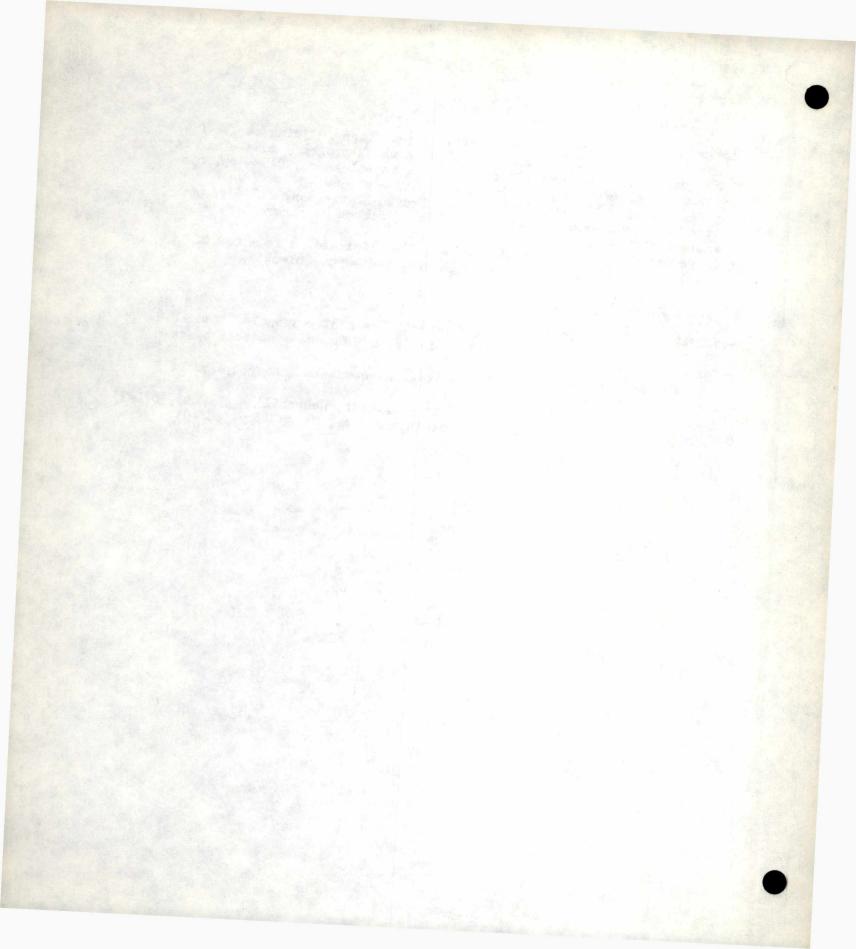
obsolescent equipment, etc. - Patterson, CAS - pp. 661-62

November 5. 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF101, Honest John, CF104 & Bomarc - storage space for - Hellyer - p. 665

Non-purchase of additional CF101's - re-arrangement in number & size of sqdns. re - Hellyer - p. 667

Availability of Genie rocket for Voodoo - Hellyer, Churchill - pp. 665, 674-75 Cdn. & NATO tactical air support - Brewin, Hellyer, Winch - pp. 682-83



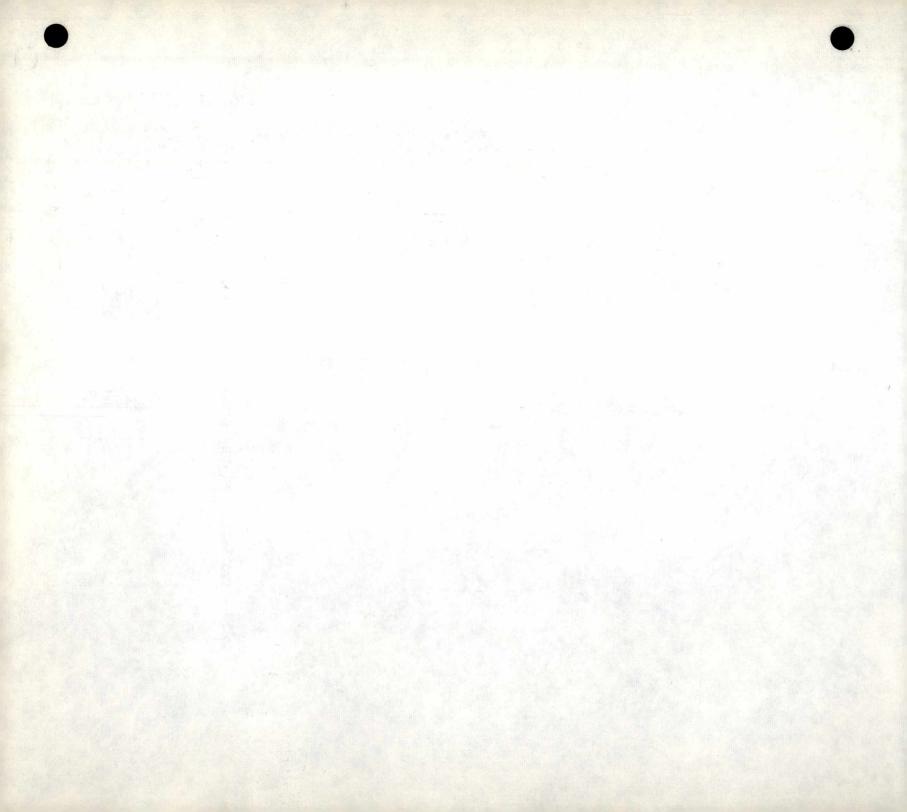
AIR FORCE - Auxiliary

July 16. 1963

Air Auxiliary - pp. 181-82
Composition & units of - CAS - p. 181
Aircraft of - CAS - p. 181
Role - CAS - p. 181

October 31, 1963

Air Force Auxiliary - function - survival role re - Hahn, CAS - p. 658



ARMY

June 27. 1963

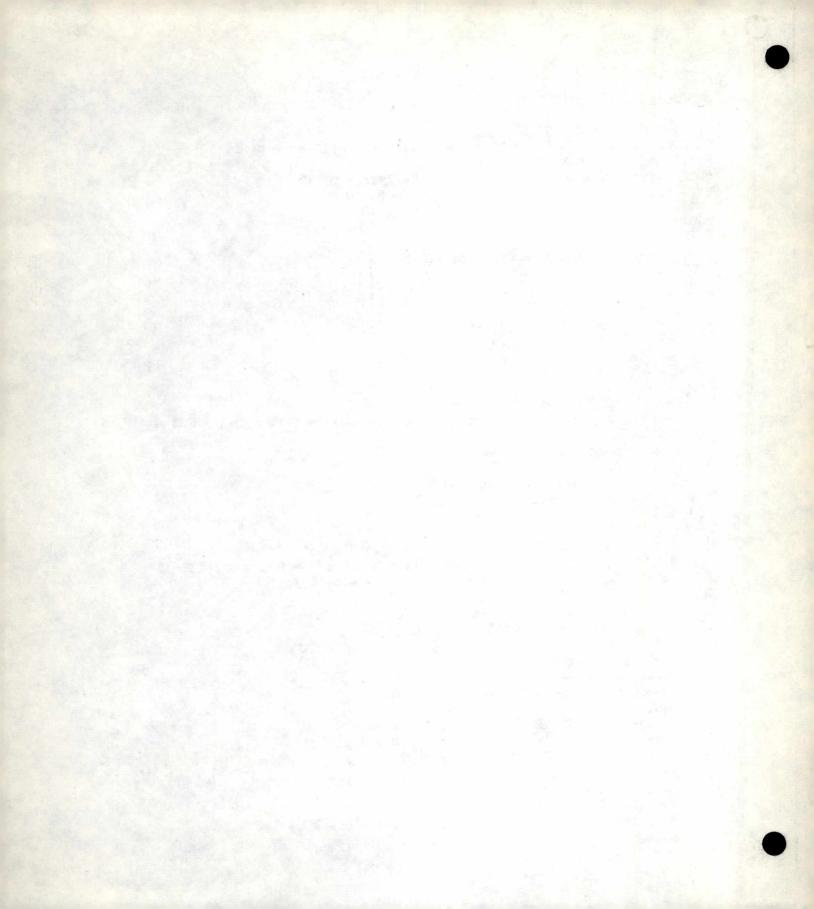
Brigade - Hellyer - p. 14
Balance of Division in event of hostilities - Hellyer - p. 14
Review of contribution - Hellyer - p. 14
UNCF - contribution of signal unit - Hellyer - p. 18
UN - battalion for in Canada - Hellyer - p. 19

July 9: 1963

Navy - support of Army - CNS - p. 90

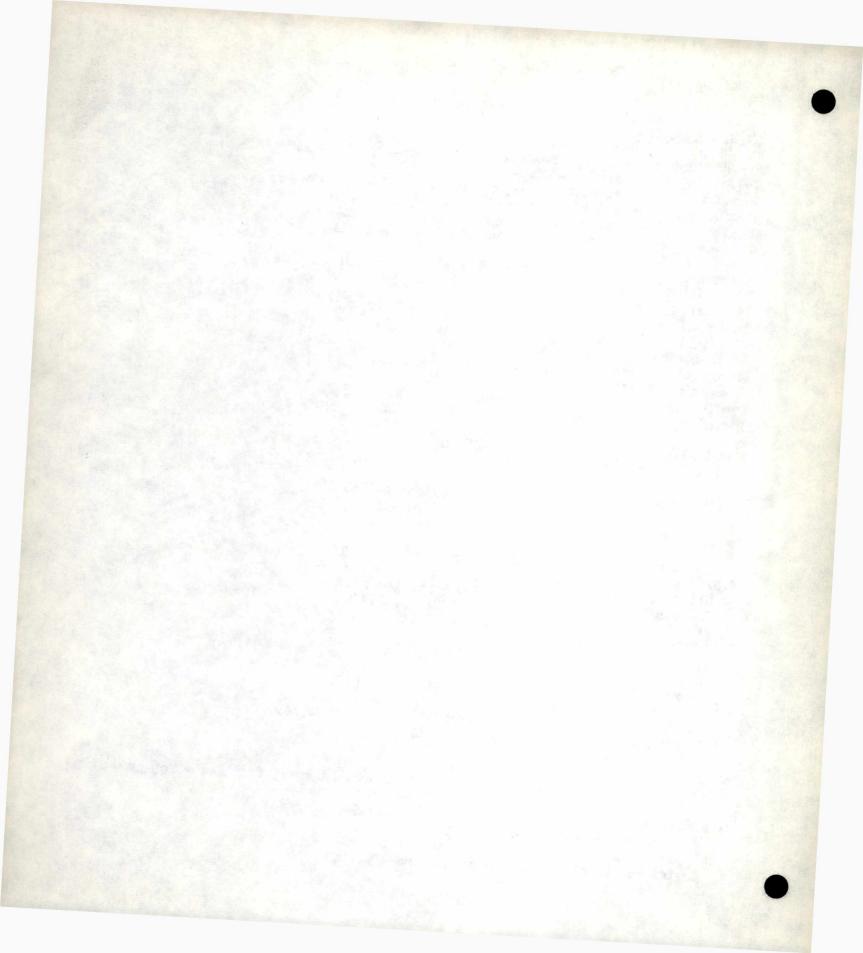
July 11, 1963

Commitments - CGS - pp. 129-131 Strength - CGS - pp. 129-134 4 CIB - CGS - pp. 130, 132, 133, 134 Location - CGS - p. 130 Mechanization of - CGS - p. 134 Operational control of - CGS - p. 131 Re-grouping, re-organization, forward strategy - force goal - CGS pp. 133, 134 Strength & equipment - CGS - pp. 133-34 Organization - CGS - pp. 130-31 Commands & areas - CGS - p. 130 Brigade Groups - location - CGS - p. 131 Commitments to NATO - CGS - p. 131 Training - CGS - pp. 131, 133 Logistic support - deficiencies - CGS - pp. 131. 135 Division - strategic reserve availability to SACEUR - CGS - pp. 132-33 Forward strategy & Northern Army Group - CGS - p. 133 Helicopters for - CGS - p. 134 Curtailment of survival ops - CGS - p. 134 Divisional Headquarters - CGS - p. 134 Administrative troops - CGS - p. 135 Division re-inforcements Fielding - CGS - pp. 135, 136 Movement to Europe - CGS - pp. 135-136 Logistic support - CGS - p. 135 In addition to 4 CIB - CGS - pp. 135, 136 Stockpiling of equipment in Europe - CGS - p. 135 Field force evolution - CGS - pp. 136-37 Strategic forecasts - CGS - p. 136 Organization - CGS - p. 136 Co-op with NATO - CGS - p. 136 War games and Operational research - CGS - pp. 136, 142 NATO concept re European war - p. 137



July 11, 1963

Acquisition and testing of SSN & ENTAC - CGS - pp. 137. 138 Signal eqpt. unsuitable - CGS - p. 137 Reconnaissance helicopters & organization - CGS - pp. 139-40 Mobility need - Bobcat development - CGS - pp. 140. 141 Battlefield logistic support - pp. 140-41, 154 - CGS Tactics & Organization Board - function - CGS - p. 142 NATO commitments - CGS - p. 142 Defence of Canada Brigade (fire brigade) - CGS - pp. 1/2-// Administration Training & movement Location Rotation with and withdrawal from for & CIB Re-inforcements for - p. 144 Radio equipment for - p. 144 Role of Militia re - p. 1/4 Oversnow vehicle - CGS - pp. 143-44 North American defence - ALCANUS - CGS - p. 144 Co-op with US - CGS - p. 144 Survival Operations - CGS - pp. 145-46 Role of Army - CGS - pp. 145-46 Civil Defence Order 1959 - CGS - p. 145 Warning through NORAD & DEW Line - CGS - p. 145 Nuclear detonation reporting - CG3 - p. 145 Re-entry operations - CGS - p. 146 Militia assistance - CGS - p. 146 Civilian Mobile Survival Columns - CGS - p. 146 U.N. Operations - CGS - pp. 146-49 Utilization of specialists - CGS - pp. 146-47 Rotation & tours of personnel - CGS - p. 147 Standby battalion (R22eR) - CGS - p. 147 3 CIB for - CGS - p. 147 UNEF - duties & composition - CGS - p. 147 UNCF (ONUC) - CGS - p. 147 Composition - CGS - p. 148 Reduction of - CGS - pp. 147-48 Viet Nam & Laos Truce Teams Composition - CGS - p. 149 Palestine - composition - CGS - p. 149 Kashmir - composition - CGS - p. 149 Korea - composition - CGS - p. 149 Training assistance to Armed Forces of Ghana, Nigeria, Trinidad & Tobago -CGS - p. 149 Assistance to civil authorities - CGS - pp. 149-151 Provincial request - CGS - p. 149 Types of assistance - CGS - pp. 149, 151 Assistance to other gov't depts. - CGS - p. 149



ARMY (Cont'd)

July 11. 1963

Penitentiary commitments - CGS - pp. 149-50, 151
Avalanche control - CGS - pp. 150, 151
De-activation of dangerous explosives - CGS - pp. 150-151
Forest firefighting - CGS - pp. 149, 150-151
Flooding - pp. 149, 151
Logistic organization - CGS - p. 154
Work measurement studies - CGS - p. 154
Automatic data processing - CGS - p. 154
Training - CGS - pp. 154-55
Co-op with U.S. & U.K. - CGS - p. 155

October 17. 1963

Army mobility - use of fixed wing aircraft re - need for armoured personnel carrier - Churchill, Simonds - pp. 460-62.

October 22. 1963

Offer of Queen's Own Regiment to UNEF - Lessard, Foulkes - p. 518

Air portability of troops & use of Bobcat - parachute element - Churchill,

Foulkes - pp. 529-30

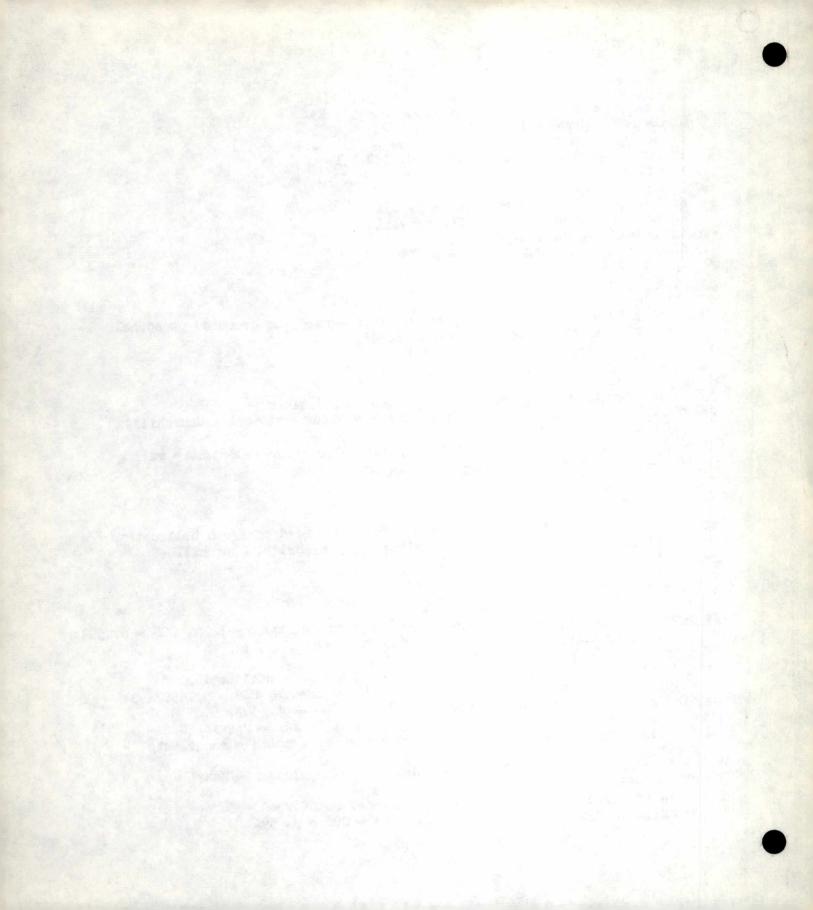
Mobility of infantry & use of armoured personnel carriers - Bobcat - ruling
out heavy armour - Churchill, Foulkes - p. 530

October 24. 1963

Air space recce & monitoring submarine movements - need of a/c & helicopters and highly mobile ground force - Gellner, Groos, Smith, Churchill - pp. 559-60, 566, 568-69, 572, 586

October 29, 1963

Airlifting of mobile force with recce & artillery equipment - Hahn, CGS - p. 592
Bobcat transportable in Hercules aircraft - CGS - p. 592
Cariboo lifting capacity - Smith, CGS - p. 592
Brigades in Canada for NATO - shipment to NATO - time - utilization of shipping - development of loading devices re - Brewin, CGS - pp. 592-93
Reinforcements for 4th Bde. - Brewin, McMillan, CGS - pp. 593, 594
Percentage of equipment for Army in Europe and in Canada - Brewin, CGS - p. 593
SSll guided missile weapon & medium-range anti-tank weapons - range, etc. Brewin, CGS - pp. 593-94
Strength of Army Regular & Militia, cadets & civ. employees - McMillan,
CGS - p. 594
Shortage of survival ops, personnel if 4th Bde. reinforced - forces assigned to UN taken from establishments in Canada - CGS - p. 594



ARMY (Cont'd)

October 29. 1963

Monthly recruiting average - offsets wastage, etc. - McMillan, CGS - p. 594 NATO defence re Germany - Lessard, CGS - pp. 594-95 Possible reduction of Cdn. forces in Europe - Lessard, CGS, Hellyer pp. 594-95

Manpower required in support of 3 infantry battalions - wastage & attrition - ratio, etc. - Temple, CGS, McMillan, Smith - pp. 595-96

Rotation of Bde. personnel - limitation to one year - despatch of single units without dependents - Winch, CGS - p. 596

Housing accommodation - married quarters - CGS - p. 596

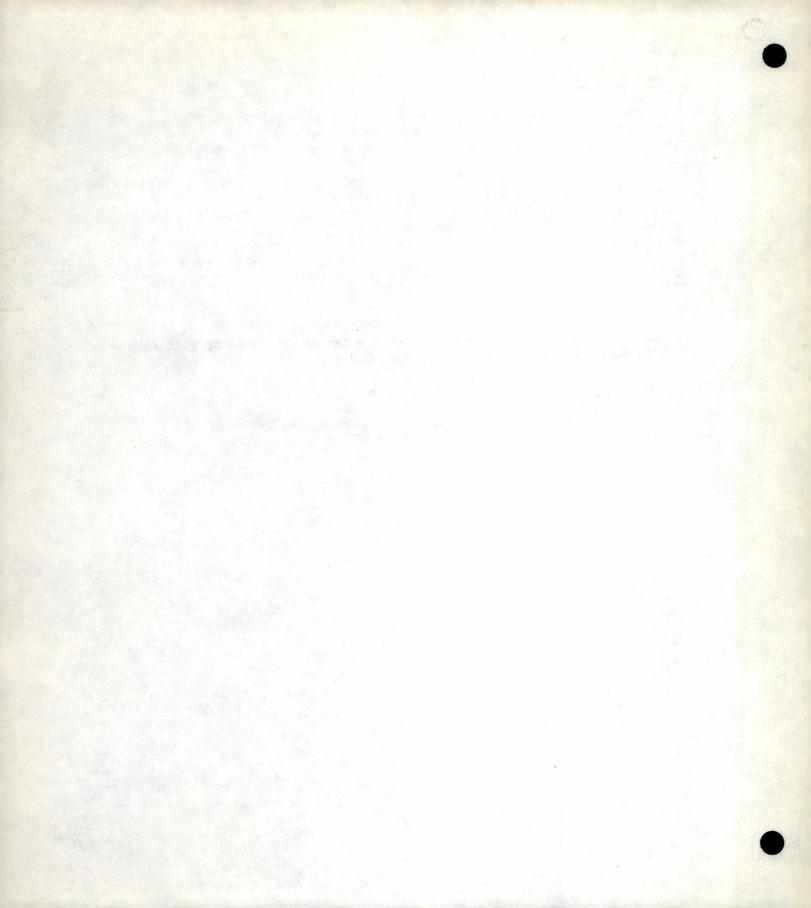
Evacuation of dependents in emergency - number of - no policy re - Winch, CGS, Hellyer, McMillan, Lembert - pp. 596-97-98

October 31, 1963

Recce in Arctic - replacement of Lancaster - defence re - co-op with Army - Soviet submarine threat in - Matheson, CAS - p. 651

November 5, 1963

Armoured personnel carriers - deficiency - Brewin, Hellyer - p. 682 Civilian & military strengths at Army HQ - CGS - p. 690



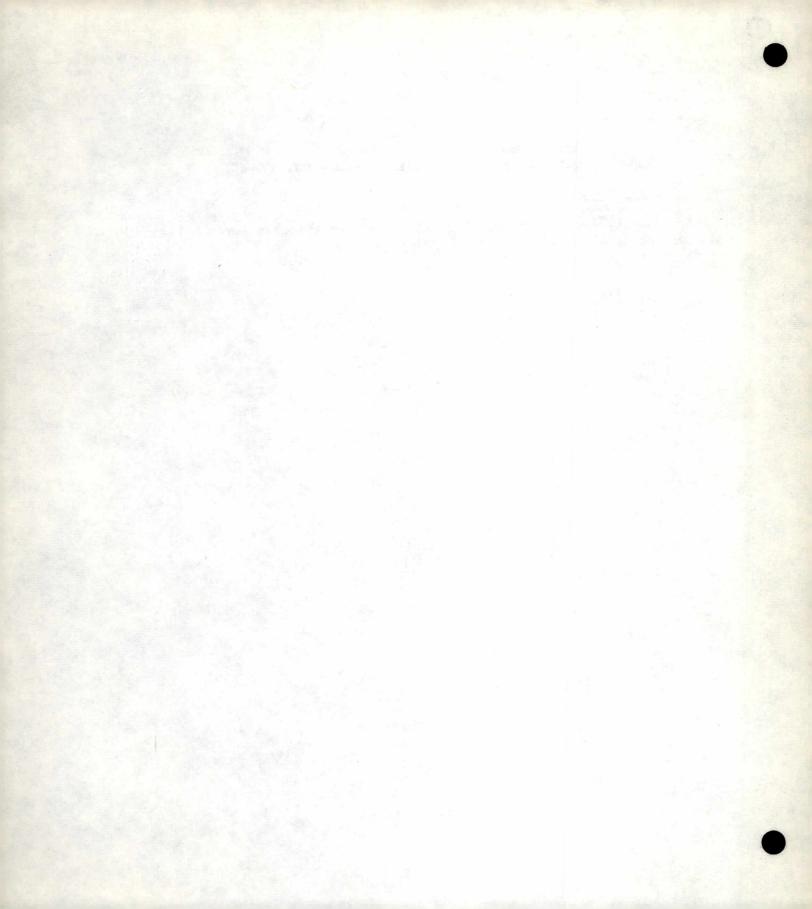
ARMY - AIRCRAFT

July 11, 1963

Helicopters for Army - CGS - p. 134
Reconnaissance helicopters & organization - CGS - pp. 139-40

October 17, 1963

Army mobility - use of fixed wing a/c - need for armoured personnel carrier - Churchil, Simonds - pp. 460-62



ARMY - Militia

July 11. 1963

Strength - CGS - p. 129

Re-entry operations - Militia assistance - CGS - p. 146

Army Militia - CGS - pp. 151-52

Primary role - p. 151

Survival Operations - CGS - p. 151

Aid to civil power - CGS - p. 151

Personnel for U.N. operations - CGS - p. 151

Role of CWAC - CGS - p. 151

Strengths & composition - CGS - pp. 151, 152

Replacement for regulars - CGS - p. 152

Support of RCMP for internment & security duties - CGS - p. 152

Training - CGS - p. 152

October 17, 1963

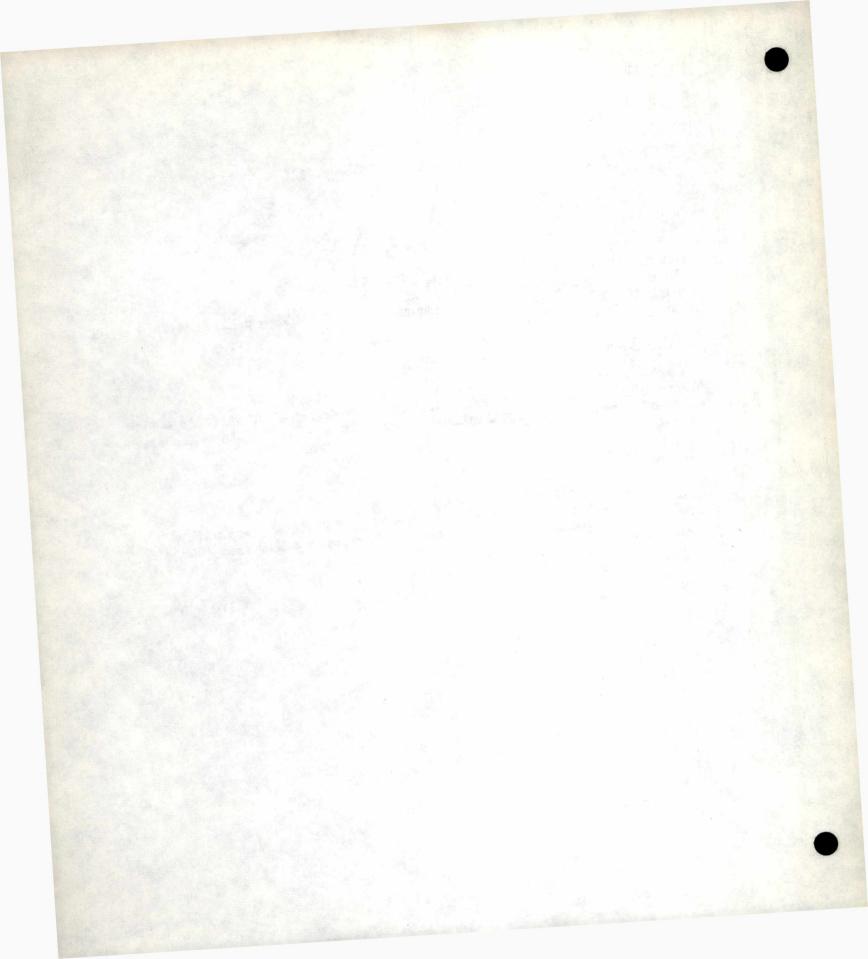
Militia role - survival - Matheson, Simonds - pp. 444-45

Compulsory military training & voluntary system - French-Cdn. attitude length of service - not applicable to senir NCO's - in Militia - MacRae,
Simonds - pp. 471-73

October 29, 1963

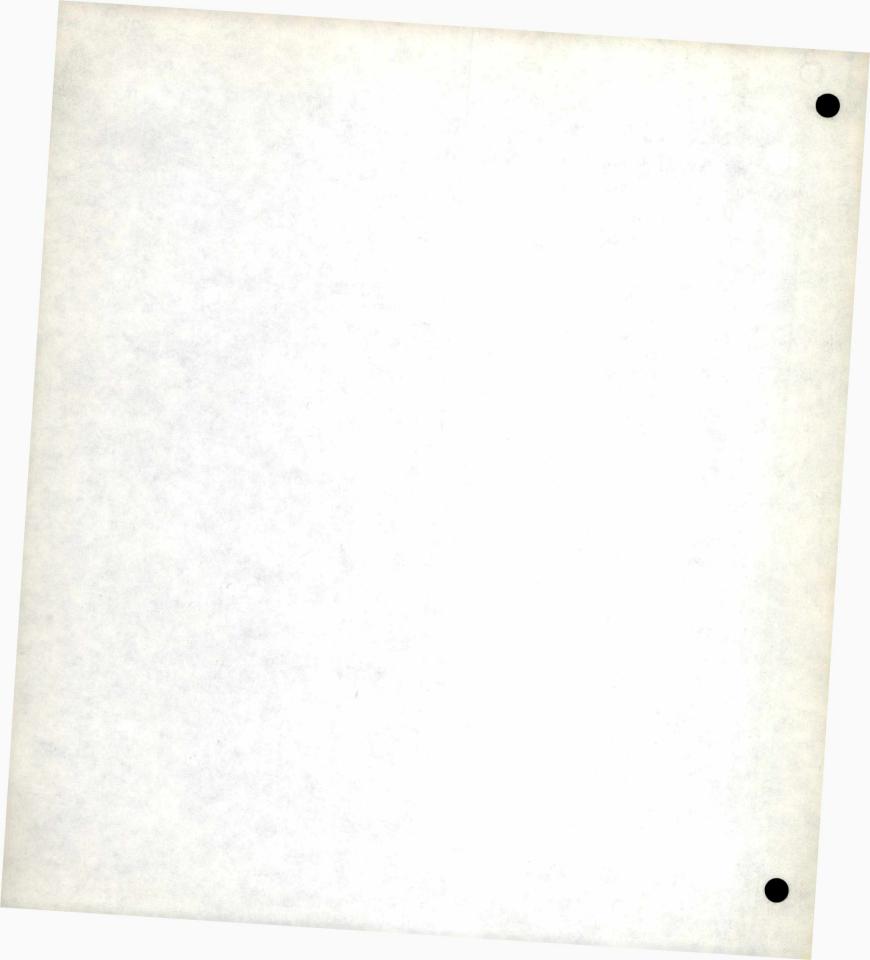
Strength of Army Militia - McMillan, CGS - p. 594

Army Militia - survival role - training in military field - co-op with regular force - source of officers for regular force - Matheson, CGS - pp. 609-11



October 15, 1963

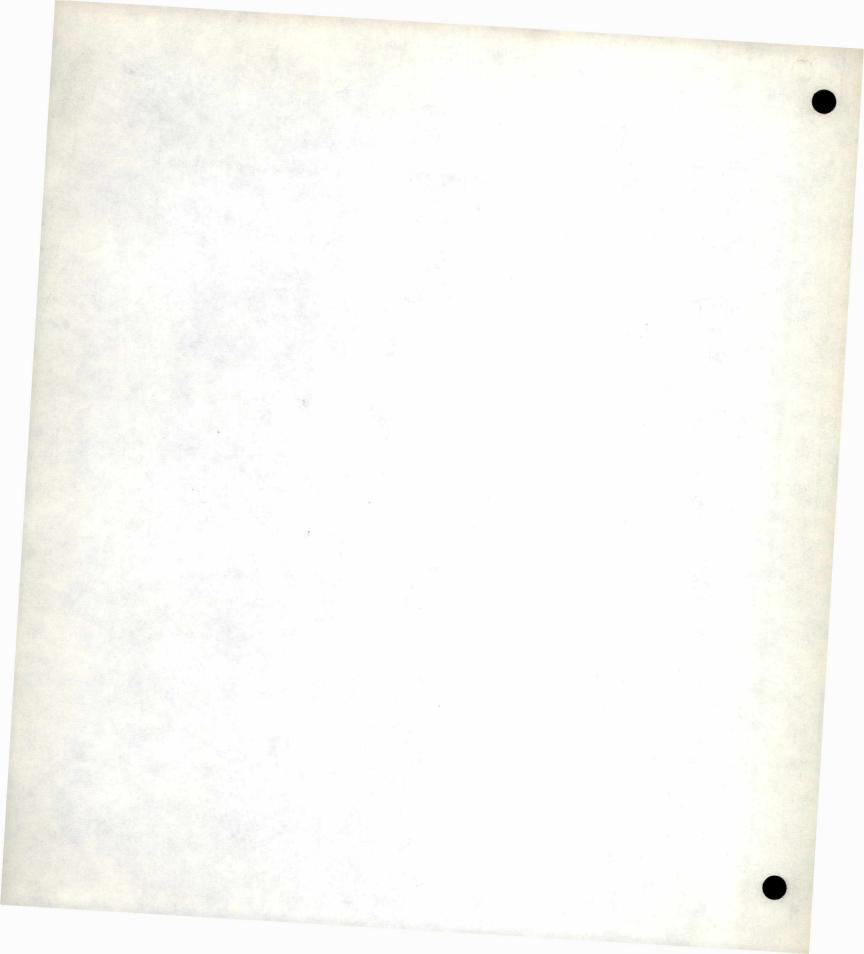
Commendations re CDR Plomer - CNS, Brewin - p. 408



BILINGUALISM

October 17, 1963

Compulsory military training & voluntary system - French-Canadian attitude - MacRae, Simonds - pp. 471-73.



BRIGADE, 4th

June 27, 1963

Balance of Division in event of hostilities - Hellyer - p. 14
Honest John - use of - not member of nuclear club - Hellyer - p. 15

July 4. 1963

Brigade raised to war strength during Berlin crisis - Deachman, CCCS - p. 80

July 11, 1963

4th CIB - CGS - pp. 130, 132, 133, 134

Location - CGS - p. 130

Mechanization of - CGS - p. 134

Operational control of - CGS - p. 131

Re-grouping, re-organization, forward strategy - force goal - CGS - pp. 133, 134

Strength & equipment - CGS - pp. 133-34

Army - Division re-inforcements - in addition to 4th CIB - CGS - pp. 135, 136

July 18, 1963

Scientists at 4th CIB - CDRB - p. 207

July 30, 1963

DDP - food supply of Cdn. NATO forces - Drury - pp. 281-82

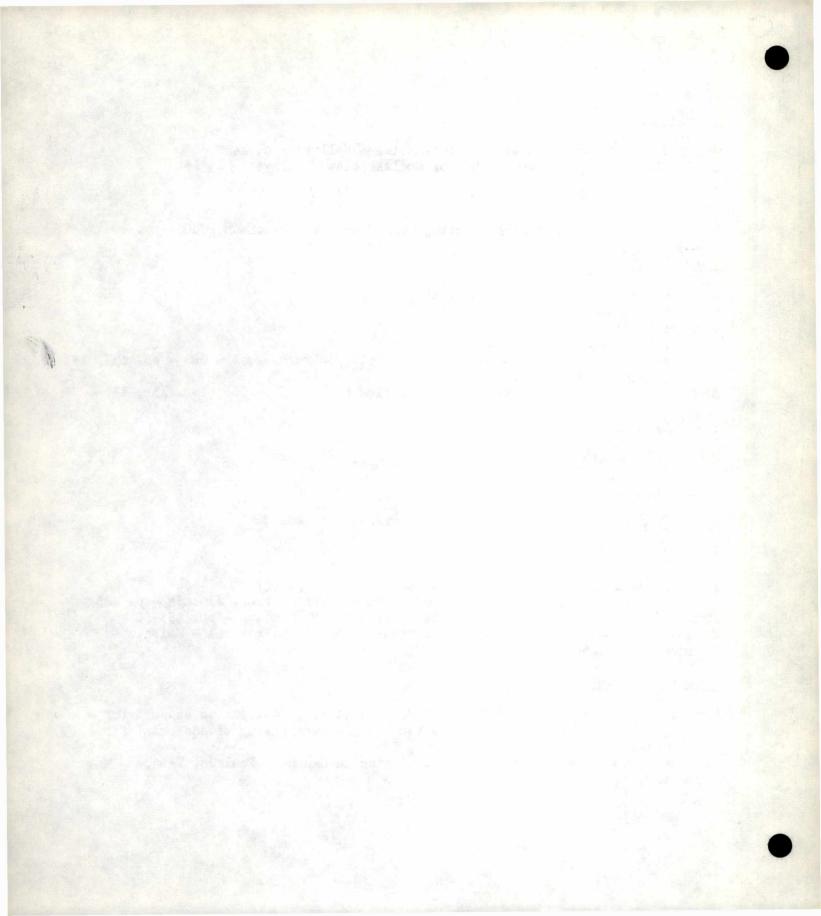
October 17, 1963

Maintenance of Brigade in Europe - Smith, Simonds - p. 441
Cdn. contribution to NATO - storage of equipment for - Groos, Simonds - p. 445
Brigade in Europe - decreasing morale value - Smith, Simonds - pp. 455-56
Forces in Europe - shorter rotation periods - dependents removal - Smith,
Simonds - p. 456

October 22, 1963

Brigade Group - strengths - effect of forward strategy - logistic support for - air portable formation - buildup after D-Day - stockpiling of equipment for - withdrawal of - Foulkes - pp. 496-98, 507

Brigade cost - strategic reserve - stationing in Canada - Foulkes, Temple - pp. 502, 520, 521



BRIGADE, 4th - (Cont'd)

October 22, 1963

l Air Div. - relinquishment of strike role and reorganized into transport unit for Brigade Group - strike role becoming redundant - Foulkes, Matheson, pp. 507, 533

Revision of Cdn. NATO contribution - movement of Brigade out of forward area - position assumed by Germany - Lambert, Foulkes, McMillan - pp. 511-12, 528 Withdrawal of Brigade to reserve position - British attitude - German acceptance - MacInnis, Foulkes - pp. 515, 516, 517

Cdn. commitment to NATO - Brigade on U.K. supply line - Foulkes, Lessard - p. 517
Withdrawing of Brigade - effect on NATO countries - Foulkes, Groos - pp. 521-22
Brigade - armed with Honest John - reason for - if withdrawn into reserve, no
need for nuclear weapons - McMillan, Foulkes - p. 528

Use of Cariboo in Europe - Smith, Foulkes - pp. 535-36

Trading of facilities with Germany if Brigade placed in reserve - Laniel, Foulkes - p. 537

October 29, 1963

Reinforcements for Brigade - Brewin, McMillan, CGS - pp. 593, 594

Percentage of equipment for Army in Europe and in Canada - Brewin, CGS - p. 593

Shortage of survival operations personnel if Brigade reinforced - forces
assigned to U.N. taken from establishments in Canada - CGS - p. 594

Possible reduction of Cdn. forces in Europe - Lessard, CGS, Hellyer - pp. 594-95

Rotation of Brigade personnel - limitation to one year - despatch of single
units without dependents - Winch, CGS - p. 596

Evacuation of dependents in emergency - number of - no policy re - Winch, CGS,
Hellyer, McMillan, Lambert - pp. 596, 597, 598

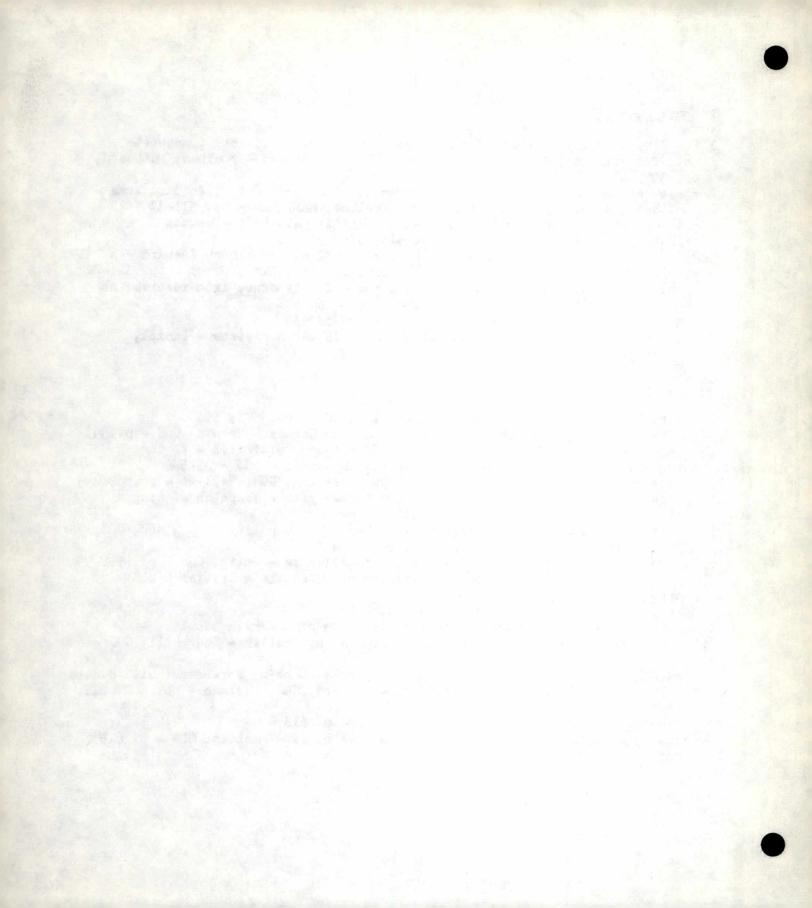
Reinforcements for Brigade - in Canada - casualties re - Smith, CG3 - pp. 598-99
Forward strategy - supplies for - re-deployment of stocks - British & U.S.
sources - Lambert, CGS - pp. 602-03

Use of nuclear weapons - Lambert, CGS - p. 603

Close support air cover for Brigade - utilization of - German adoption - helicopters for reconnaissance re, development by British - Churchill, CGS - pp. 612-13

Honest John - authority to use - technical agreement being worked out with U.S. - function of - efficiency of Brigade re - Lessard, CGS, MacLean - pp. 600, 618, 619

Food supply to Brigade - McMillan, Winch, CGS - p. 618 Converting Brigade to airborne role - supply setup re - MacLean, CGS - p. 619

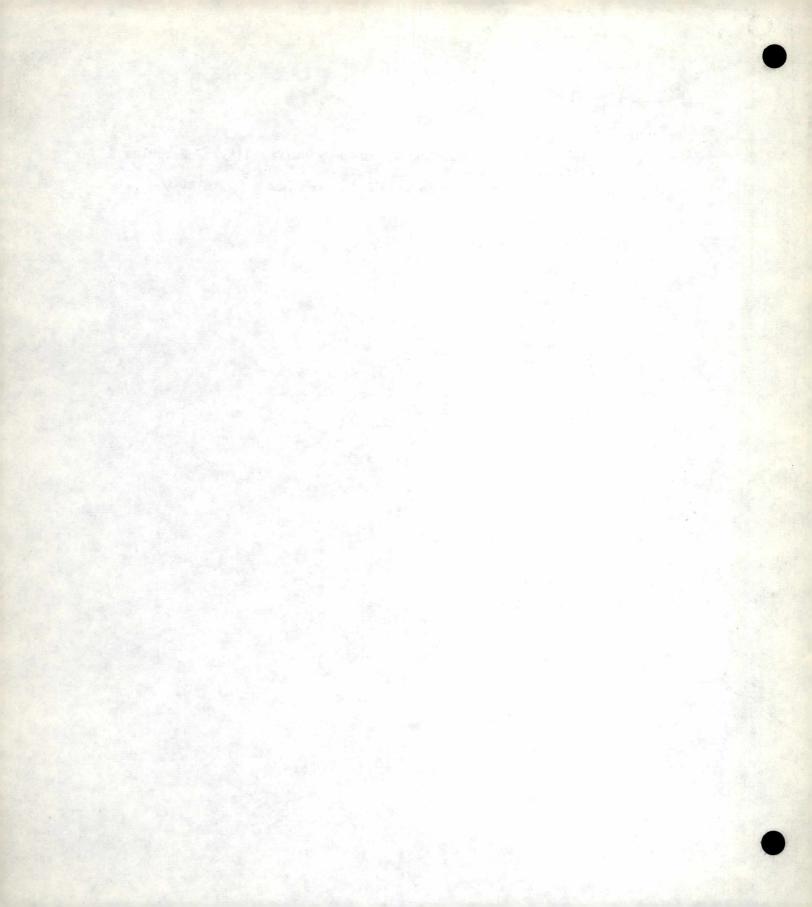


BRIGADE, 4th - (Cont'd)

October 31, 1963

Movement of Brigade from North America to Europe - suitability of Hercules & Yukon - Temple, CAS - pp. 627-28

Strength of Brigade - number of dependents - MacRae, CAS - pp. 638-39



CADETS

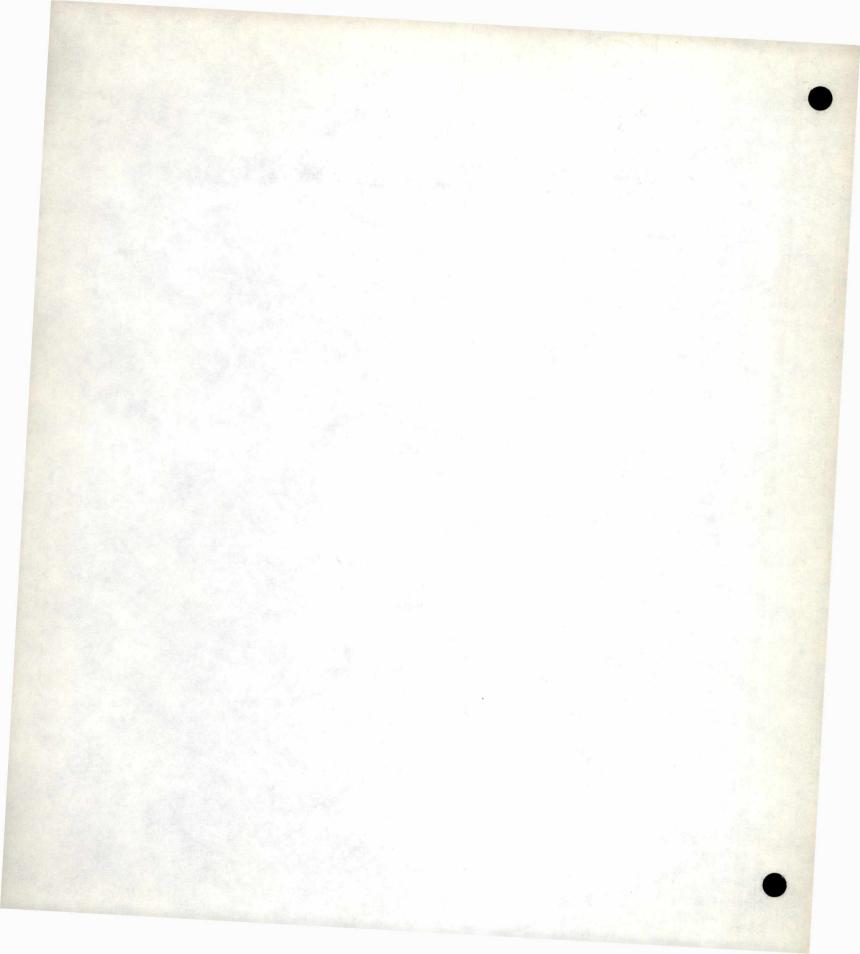
July 11, 1963

Army cadets - strength - CGS - p. 129

Army cadets - strengths - administration & training - CGS - p. 152

October 29, 1963

Strength of cadets - McMillan, CGS - p. 594



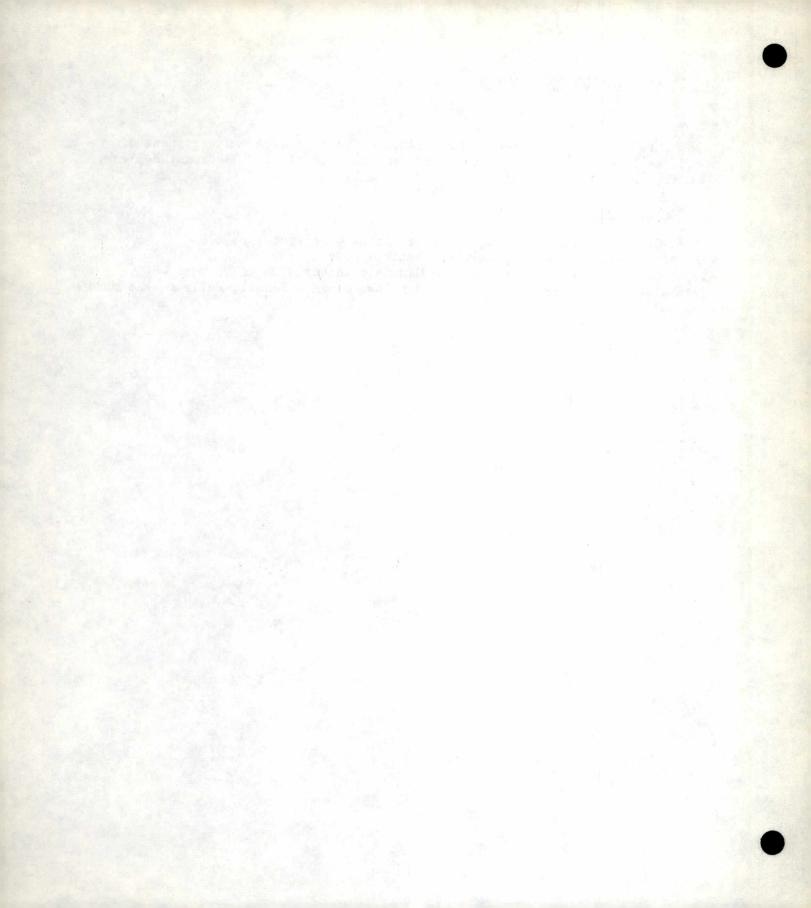
CANADA-NATO PRODUCTION SHARING

October 29, 1963

Lessons re Bobcat development & production - future design & development of equipment for sale to NATO countries - success in field - Deachman, Hellyer, Smith, Matheson, Churchill - pp. 608-09, 611.

November 5, 1963

Canada-U.K. production sharing re recce. drone - Hellyer - p. 666
Cost of new subs - Lessard, Hellyer, Smith - pp. 684, 687
Future construction of submarines in Canada & acquisition of Oberons - production-sharing agreement re CL89 recce. drone - Laniel, Hellyer, MacInnis - pp. 685, 687-88.



CANADA'S DEFENCE POLICY

June 27, 1963

Cdn. commitments to NATO - Hellyer - p. 13

Pooling contributions with NATO, NORAD & U.N. - Hellyer - p. 19

Contributions & commitments - Hellyer - p. 19

Re-consideration of frigate program - Hellyer - p. 19

Review of acquisition of additional CF104's - Hellyer - p. 19

Re-deployment of CF104's in France - Hellyer - pp. 19-20

DRB Operations Research re defence - Hellyer - p. 20

Review of existing program followed by policy decisions - Hellyer - p. 20

Consideration of Glassco recommendations - p. 20

Consideration of relationship between Cdn. & allied forces - p. 20 - Hellyer

U.S. Gen. Lemnitzer's visit to Canada - Hellyer - p. 20

Review of NATO strategy - Hellyer - p. 20

World problems can't be solved by force & provision of umbrella - Hellyer - p. 20

July 2, 1963

Cttee. - recommendation of policy - Groos, Hellyer - p. 53

July 4. 1963

National responsibilities on defence - Groos, Hellyer - p. 83

July 25, 1963

Relationship of defence & foreign policies - example in NATO - Martin - pp. 231-32, 234, 235

Cdn. foreign policy - defence policy - preventive - preservation of peace - Martin - pp. 231-32, 233

Co-ordination of defence, foreign & economic policies - review of - Martin - p. 241

Limited flexible response to aggression - Groos, Martin - pp. 242-43

Defence, foreign & economic policies - Lessard - Martin - p. 244

October 17, 1963

Cdn. Armed Forces should be tri-service - main objective peace-keeping integration of - Smith, Simonds, McMillan - pp. 439-440, 441, 453

Tri-service co-ordinated force similar to U.S. Marine Corps - Simonds - p. 442

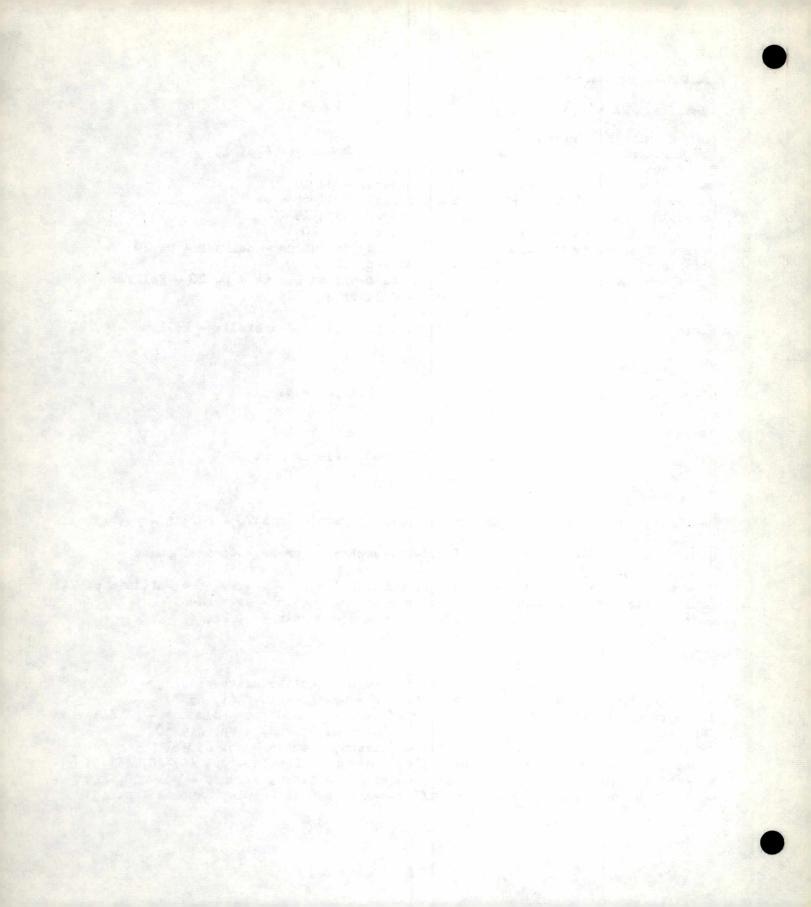
Cdn. role re prevention of nuclear war - Lessard, Simonds - pp. 449-50

Cdn. contribution to U.N. - Army role - Lessard, Simonds - pp. 450-51

Conventional role for Cdn. forces - Lloyd, Simonds, Brewin - pp. 447-48, 452-53

Lack of long-term policy - economic road blocks - Lloyd, Simonds - pp. 448, 449

Canada's defence policy muddled - influenced by U.S. - Brewin, Simonds - p. 453



CANADA'S DEFENCE POLICY - (Cont'd)

October 17, 1963

Escalation into a nuclear war - nuclear weapons no place in defence role (NATO) Hahn, Simonds - p. 458

Deterrent - Cdn. role re - conventional role for NATO - phasing out of nuclear
role for Canada - MacLean, Simonds, Matheson - pp. 474-76

Defence policy - public & political indifference re - MacLean, Simonds - pp. 476-77

Mobile force - composition - modeled after U.S. Marine Corps - armament re air transport of - Temple, Simonds - p. 477

Nuclear vs conventional forces - use of - Smith, Simonds - p. 478

Cdn. defence role - possible re-negotiation of commitments - Matheson, Simonds pp. 480-81

October 22, 1963

Evolution of defence policy - amalgamation of Services, NCRAD, NATO, U.N. operations in Korea and introduction of nuclear strategy - purpose to prevent major war - Foulkes - pp. 493-94

Effective defence contributions to isolate disturbances - maximum deterrent - suited to Cdn. aptitudes - provided from Cdn. industry - public support - Foulkes - pp. 494-95

Establishment of combined scientific and operational group - Foulkes - p. 496

Defence developments - years for decisions - Foulkes - pp. 501-02

Defence objectives - flexibility - political and defence trends - Foulkes - p. 506

Withdraw Cdn. troops abroad - Foulkes - p. 507

Nuclear vs conventional war - Brewin, MacInnis, Foulkes - pp. 513-15

Emphasis on deterrent - composition of - Temple, Foulkes, Lambert - pp. 518-19

Dealing with submarine threat adds to deterrent - Brewin, Foulkes - p. 540

October 24, 1963

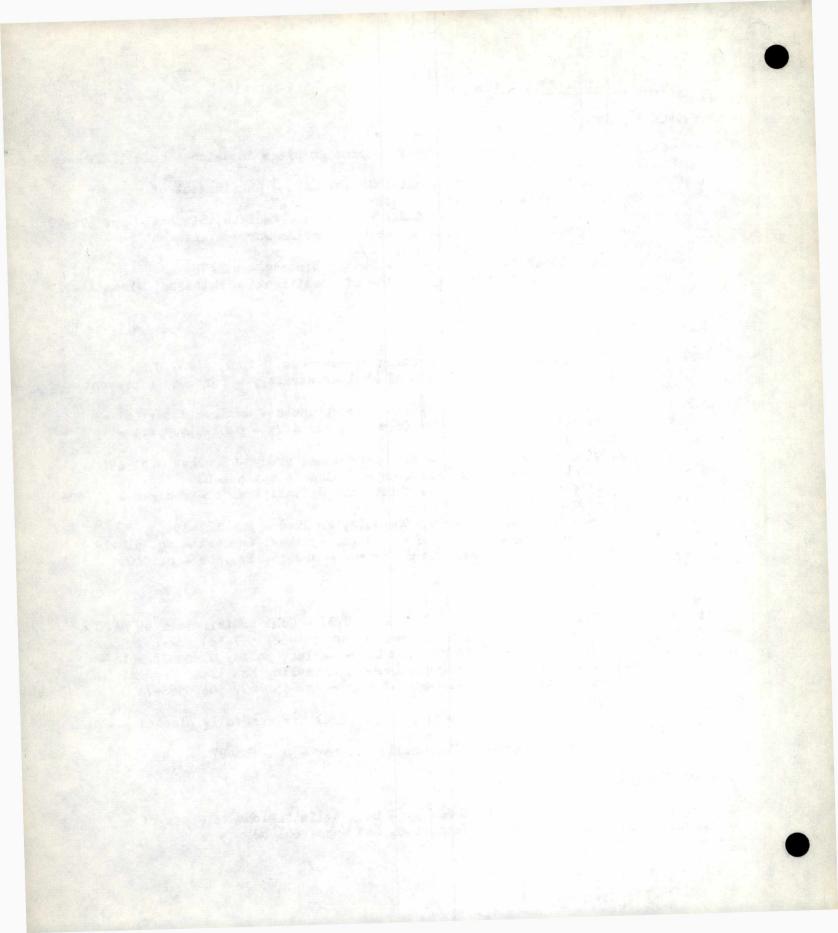
Cdn. defence effort auxiliary to NATO, U.K. & U.S. - Cdn. contribution to NATO - divergence of - Gellner, Asselin, Baldwin - pp. 551-52, 557-58, 562-63, 566. Defence policy objectives - military doctrine - nuclear policy & commitments - deterrents, etc. - re NATO - Gellner, Lambert, Asselin, McMillan, Temple, Groos, Churchill, Patterson, Deachman, MacRae - pp. 552-60, 564, 568-71, 573-74-76, 580, 584, 586

Obsolescence of equipment not necessary if original use carefully planned - Gellner - pp. 574-75

Size of force to be maintained - Churchill, Gellner - pp. 586-87

October 31, 1963

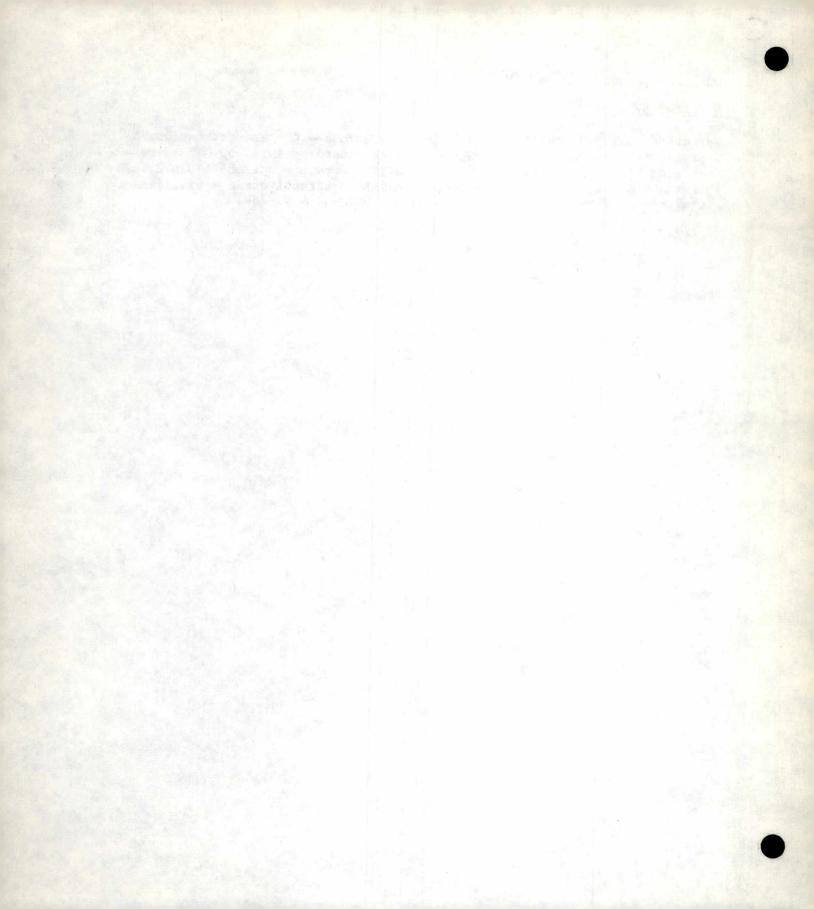
Roles re Canada-U.S. region, NATO & U.N. - budget limitations re - use of obsolescent equipment, etc. - Patterson, CAS - pp. 661-62



CANADA'S DEFENCE POLICY - (Cont'd)

November 5, 1963

Review of policy & commitments - Navy requirements - procurement equipment programs - cancellation of frigate program - need of info. by Cttee. re - sharing of info. in camera - Winch, Hellyer, Brewin - pp. 665-67, 672, 678. Sutherland Cttee. - purpose - systems evaluation effectiveness - civilian evaluation of military proposals - Smith, Hellyer - p. 688.



CANADA'S DEFENCE POLICY - NATO

June 27, 1963

Cdn. provision of bases, communications & overflight privileges - Hellyer - p. 13 <u>SACIANT</u> - duties of & forces earmarked for - Hellyer - p. 13

- Cdn. contribution to - Hellyer - pp. 13-14

NAVY - Destroyer escorts - sonar - helicopters for - Hellyer - pp. 13-14

- Anti-sub warfare - offence vs defence - Hellyer - p. 14

- Hydrofoil craft - Hellyer - p. 14

- Maritime a/c - Neptune - Argus - Hellyer - p. 14

ARMY - Brigade - Hellyer - p. 14

- Balance of Division in event of hostilities - Hellyer - p. 14

- Review of contribution - p. 14

- Consideration of relationship between Cdn. & allied forces - Hellyer - p. 20

- U.S. Gen. Lemnitzer's visit to Canada - Hellyer - p. 20

- Change of strike-recce. role of 1 Air Div. & working out of role - NATO anxious re strike recce. role - Smith - p. 22

July 4. 1963

Change to conventional role - CCOS, Laniel - p. 66 Cdn. commitments to NATO - CCOS - p. 62 Cdn. contribution to NATO - CCOS, Matheson - p. 63

July 9. 1963

Navy - under NATO - ships for - CNS - pp. 89, 90, 91 Navy - exercises with allied ships - CNS - p. 90 Defence of Cdn. coastline - NATO & U.S. arrangements - Winch - p. 116

July 11, 1963

Army - forward strategy & Northern Army Group - CGS - p. 133 Army - field force evolution - co-op with NATO - CGS - p. 136 Army NATO commitments - CGS - p. 142

July 25, 1963

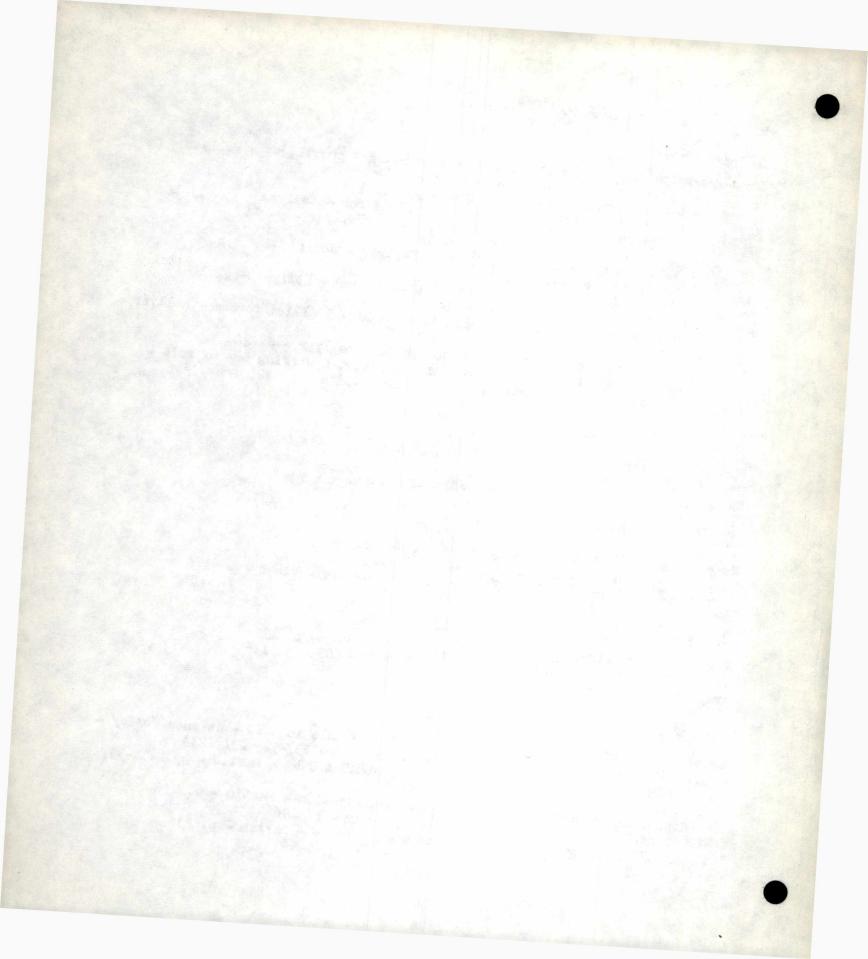
Relationship of defence & foreign policies - example in NATO - defence policy - preventive - preservation of peace - Martin - pp. 231-32, 234, 235

Membership in collective security of NATO, NORAD & U.N. - Martin - pp. 234-35, 238, 241

Organization & operation of NATO - Cdn. participation - Martin - p. 236

NATO Council study of nuclear problems - Martin - p. 236

Ottawa NATO meeting - decision re review of defence - Martin - p. 236



CANADA'S DEFENCE POLICY - NATO - (Cont'd)

July 25, 1963

Co-ordination of defence, foreign & economic policies - review of - Martin - p. 241 Cdn. commitments to NATO - keeping of - Matheson - pp. 244-45

October 15, 1963

NATO exercises - participation in - Churchill, CNS - pp. 421, 422
Naval role in NATO & U.N. commitments - Matheson, CNS - pp. 424-25
Anti-submarine role as specialized task of NATO - Brewin, CNS - pp. 431-32

October 17, 1963

Maintenance of Brigade in Europe - Smith, Simonds - p. 441

Cdn. contribution to NATO - storage of equipment for - Groos, Simonds - p. 445

Forces in Europe - shorter rotation periods - dependents removal - Smith,

Simonds - p. 456

Peace-keeping operations - schedule of - divided between NATO & U.N.
Matheson, Simonds - pp. 464-66

Deterrent - Cdn. role re - conventional role for NATO - phasing out of nuclear

role for Canada - MacLean, Simonds, Matheson - pp. 474-76

Cdn. defence role - possible re-negotiation of commitments - Matheson,

Simonds - pp. 480-81

October 22, 1963

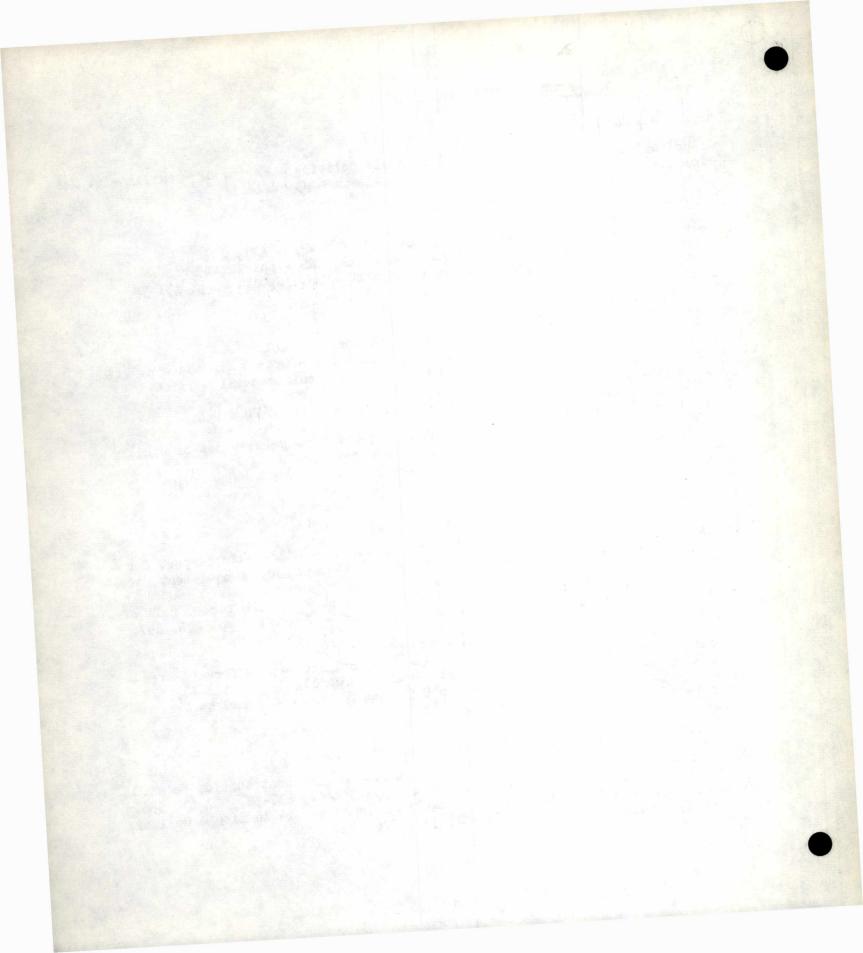
Brigade Group - strengths - effect of forward strategy - logistic support for - air portable formation - buildup after D-Day - stockpiling of equipment for - withdrawal of - Foulkes - pp. 496-98, 507

l Air Div. - aircraft of - additional airlift capacity - strike recce. role of - non-use of French air bases - nuclear weapons for - Foulkes - pp. 496, 497, 499-500.

Mobile ready reserve for NATO & U.N. - Foulkes - p. 507
Revision of Cdn. NATO contribution - movement of Brigade out of forward area - position assumed by Germany - Lambert, Foulkes, McMillan - pp. 511-12, 528
Cdn. commitment to NATO - 1 Air Div. on U.S. supply line - Brigade on U.K. supply line - Foulkes, Lessard - p. 517

October 24, 1963

Cdn. defence effort auxiliary to NATO, U.K. & U.S. - Cdn. contribution to NATO - divergence of - Gellner, Asselin, Baldwin - pp. 551-52, 557-58, 562-63, 566. Strike recce. role for CFlO4 mistake - tactical support role in lieu - Gellner, Lambert, Brewin - pp. 554-55, 561-62, 571, 576-77



CANADA'S DEFENCE POLICY - NATO - (Cont'd)

October 24, 1963

Stationing of Cdn. forces in Europe - withdrawal from - holding in reserve - air & sea transportability of - Gellner, Brewin - pp. 561-62 Cdn. staffs highly regarded in NATO - Gellner - p. 566

October 29, 1963

Integration of Services - existent commands - difficulties re NATO commands, SACIANT, etc. - Winch, CGS - pp. 614-15

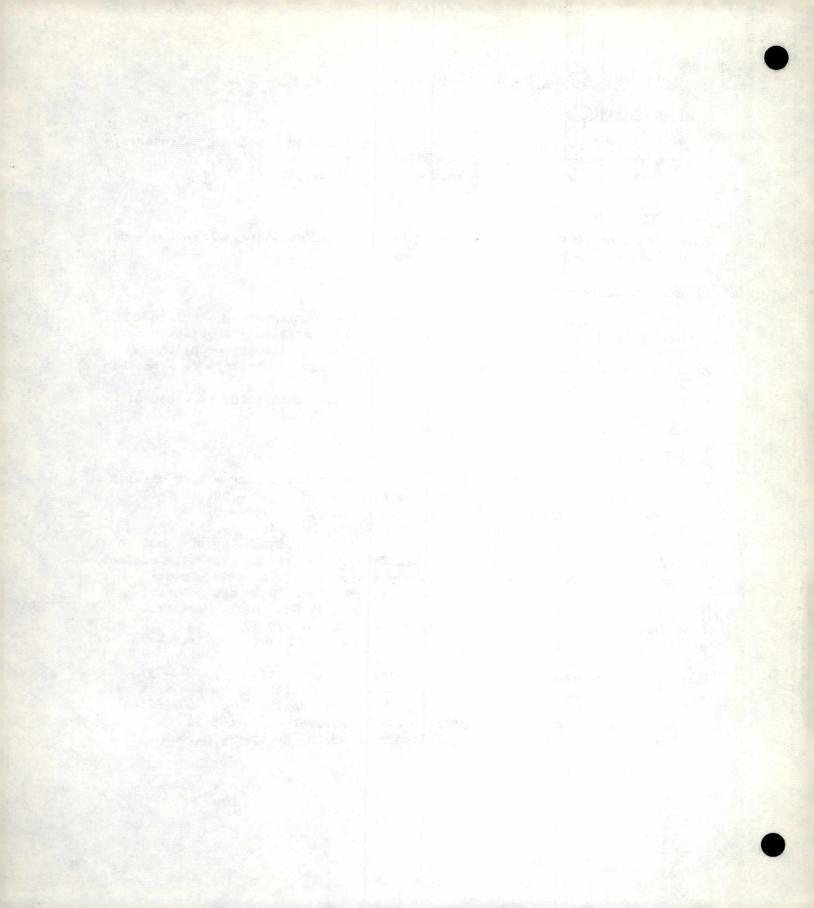
October 31, 1963

NATO determination re strike role - date - Cdn. commitment to - change & completion of - adoption of conventional role - Norstad's suggestion re strike role for 1 Air Div. - Matheson, CAS, Smith, Lambert - pp. 649-50 Maritime Air Command commitment to SACIANT - number of aircraft re - MacLean, CAS - pp. 660-61

Roles re Canada-U.S. region, NATO & U.N. - budget limitations re - use of obsolescent equipment, etc. - Patterson, CAS - pp. 661-62

November 5, 1963

Acquisition of Oberon subs from U.K. - for anti-sub training - subs on loan used as anti-sub barriers - available to NATO - Hellyer - pp. 665-66 Briefing of NATO Parliamentary Delegation - Winch, Hellyer - p. 668 Difficulty re Air Div. sqdns. in France - Winch, Hellyer - p. 668 Canada-U.S. agreement re nuclear weapons - request for tabling of - motion difficulties re for Cttee. - possible future limitations re - time element technical nature of - control, custody & storage of warheads - costsharing re - concurrence of NATO countries - Winch, Hellyer, Lambert, Brewin, Smith, Lessard, Patterson, Hahn, Laniel, Churchill, Martineau, MacInnis - pp. 668-69, 670-71, 672-73, 673-74, 678-79-80. Review of NATO strategy - Cdn. recommendations re - Brewin, Hellyer pp. 681-82 Cdn. & NATO tactical air support - Brewin, Hellyer, Winch - pp. 682-83 Need for dispersal of 1 Air Div. bases - nuclear difficulty re bases in France - re-examination of situation - Lessard, Hellyer - pp. 683-84 Arrival at NATO commitments & roles - Smith, Hellyer - pp. 685-86 NATO multilateral force - Cdn. position re - Smith, Hellyer - p. 686



CANADA-U.K. CO-OPERATION

July 9, 1963

Navy - submarines - Oberon - acquisition - CNS - pp. 104-05 Oberon sub acquisition - Groos - p. 117

July 18, 1963

Sonar - adoption by RCN & RN - CDRB - pp. 207, 208, 212

Defence research - co-op with U.K. & U.S. - CDRB - pp. 213-14

Research in anti-ICBM defence & survival - co-op with U.K. - explosives in kiloton range - Lessard, CDRB - pp. 226-27

October 8, 1963

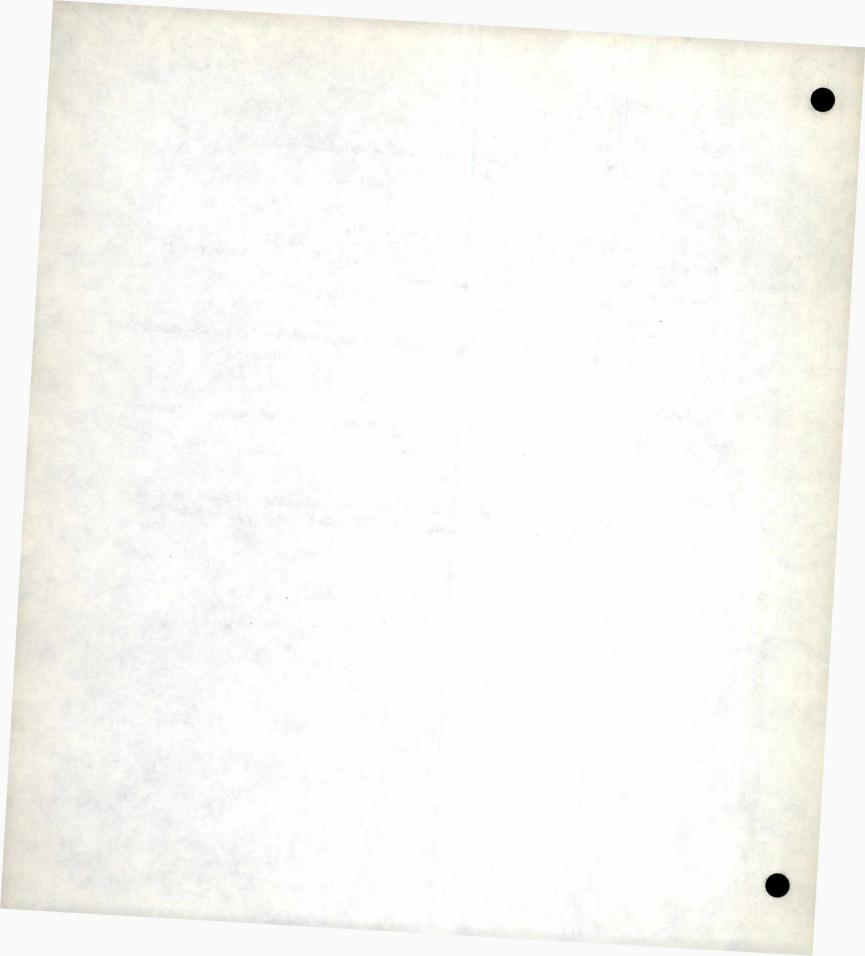
Sub training - Can.-U.S. & U.K. arrangements - commitment to U.K. re - Winch, CNS - pp. 333-34

October 29, 1963

Forward strategy - Brigade - supplies for - re-deployment of stocks - British & U.S. sources - Lambert, CGS - pp. 602-03

November 5, 1963

Acquisition of Oberon subs from U.K. - for anti-sub training - subs on loan - used as anti-sub barriers - available to NATO - Hellyer - pp. 665-66



CANADA-U.S. CO-OPERATION

June 27, 1963

Can.-U.S. negotiations re nuclear defensive weapons - Hellyer - p. 17

July 2, 1963

Cooking of nuclear warhead - info. from U.S. & bilateral nuclear agreement re - Churchill, Dr. Field, Hellyer, Baldwin, McMillan - pp. 35-36, 37, 38, 39, 45-46 Flights of U.S. a/c over Canada & overflight privileges under NORAD - Hellyer, Lessard, Matheson - pp. 43, 48

Bomarc paid for by U.S. - Deachman, Hellyer - p. 47

July 4. 1963

CF101 acquired from U.S. - type of armament - Churchill, Hellyer, Winch - pp. 75-76, 77, 78

July 9, 1963

Navy - Can.-U.S. arrangements - ships for - CNS - p. 89
Defence of Cdn. coastline - NATO & U.S. arrangements - Winch - p. 116

July 16, 1963

Maritime Air Command - co-op with CINCPAC - CAS - p. 171

July 18, 1963

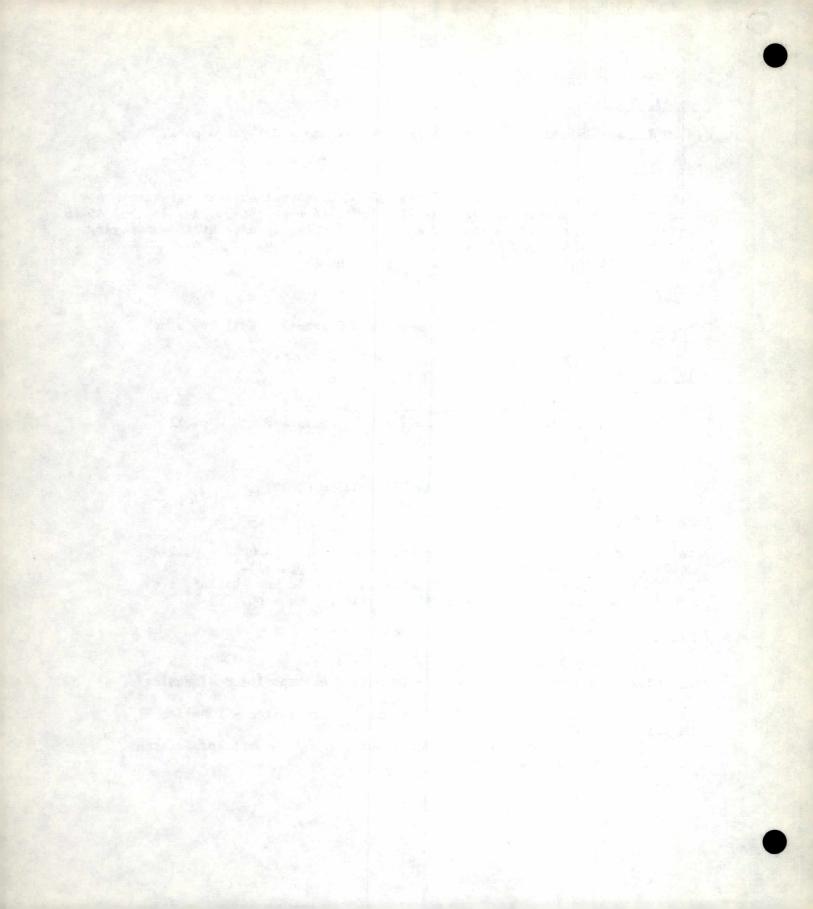
Defence research development program - sharing program - CDRB - p. 212

Defence research - co-op with U.K. & U.S. - CDRB - pp. 213-14

Classified info. from U.S. made available on "need to know basis", i.e., nuclear weapons, cooking effect, etc. - Winch, CDRB - pp. 223-24

July 25, 1963

Co-op with U.S. for security - Martin - pp. 233, 235
Ministerial Cttee. on Joint Defence - formation & composition - meeting of Martin - pp. 237
Permanent Joint Board of Defence - formation & composition - function Martin - pp. 237-38
Request for breakdown of International Cttees. of DND & Dept. of External
Affairs - Deachman - pp. 246-47



CANADA-U.S. CO-OPERATION - (Cont'd)

October 8, 1963

Sub training - Can.-U.S. & U.K. arrangements - Winch, CNS - pp. 333-34

October 17, 1963

Cdn. defence policy muddled - influenced by U.S. - Brewin, Simonds - p. 453
Nuclear weapons - Pentagon influence - Granger, Simonds - p. 463
Nuclear warheads at U.S. bases in Nfld. - Winch, Simonds - p. 479

October 22, 1963

Intelligence Services of forces - function - co-op with U.S. - Smith, Foulkes - pp. 534-35

October 24, 1963

Cdn. contribution to U.S. deterrent - radar warning lines, BMEWS, etc. - refuelling facilities - Gellner - pp. 572-73

October 29, 1963

Honest John - authority to use - technical agreements being worked out with U.S. - function of - efficiency of Brigade re - Lessard, CGS, MacLean - pp. 600, 618, 619

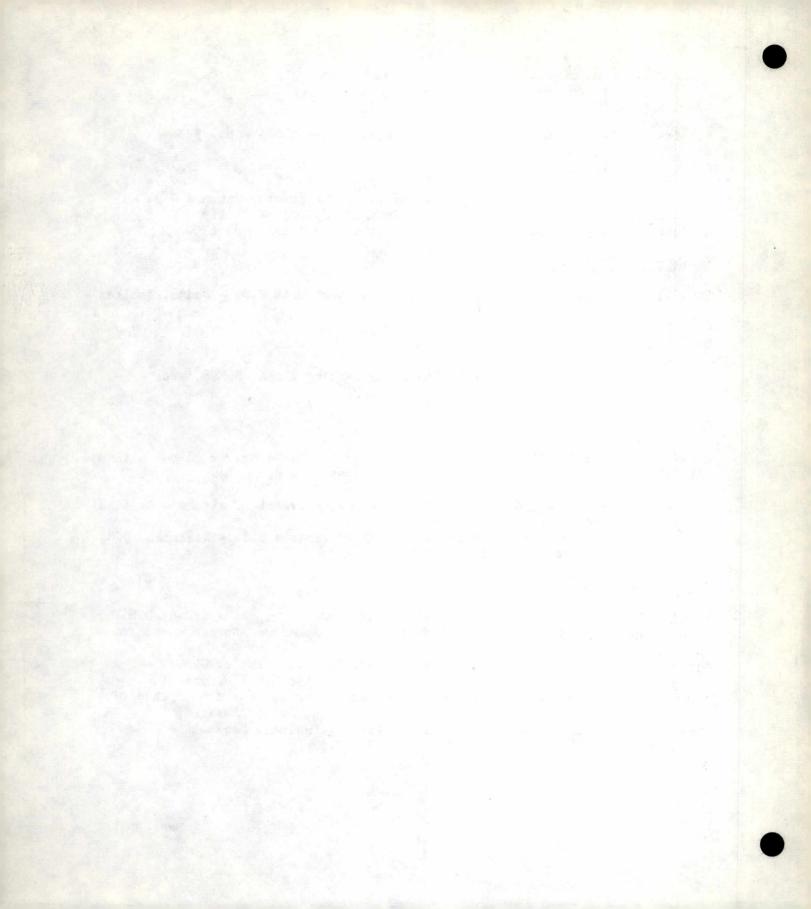
Forward strategy - Brigade - supplies for - re-deployment of stocks - British and U.S. sources - Lambert, CGS - pp. 602-03

Northwest Highway System - consultation with Province & U.S. - Deachman, CGS, Hellyer, Patterson, Baldwin - pp. 603-05

November 5, 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF101, Honest John, CF104 & Bomarc - storage space for - Hellyer - p. 665

Canada-U.S. agreement re nuclear weapons - difficulties re for Cttee. possible future limitations re - time element - technical nature of control, custody & storage of warheads - cost-sharing re - concurrence of
NATO countries - Winch, Hellyer, Lambert, Brewin, Smith, Lessard,
Patterson, Hahn, Ianiel, Churchill, Martineau, MacLean, MacInnis pp. 668-69, 670-71, 672-73, 673-74, 678-79-80.



CANADA-U.S. PRODUCTION SHARING

July 18, 1963

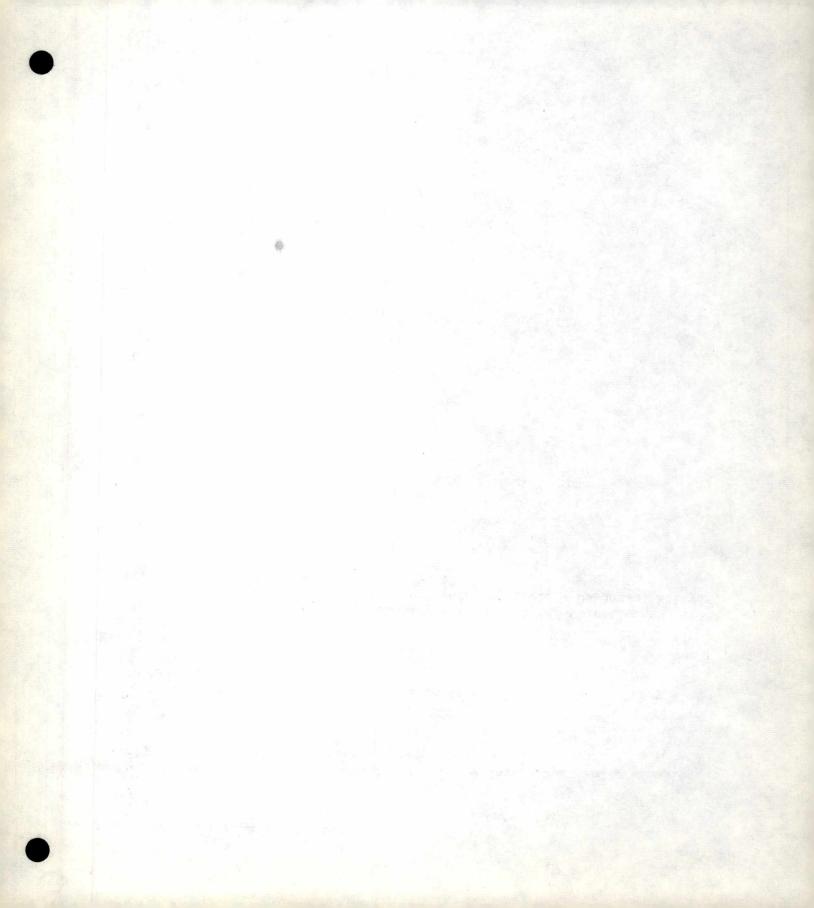
Defence research - arrangements with industry re development and production and production sharing - Deachman, CDRB - pp. 222-23

July 30, 1963

DDP - production sharing - Can.-U.S. - amounts - NATO - amounts - Drury - pp. 260, 264-68, 280

October 29, 1963

Lessons re Bobcat development & production - future design & development of equipment for sale to NATO countries - success in field - Deachman, Hellyer, Smith, Matheson, Churchill - pp. 608-09, 611



CANADIAN SERVICES COLLEGES

July 11, 1963

Briefing by Director of Cdn. Services Colleges - Hellyer, Matheson - p. 156

July 25, 1963

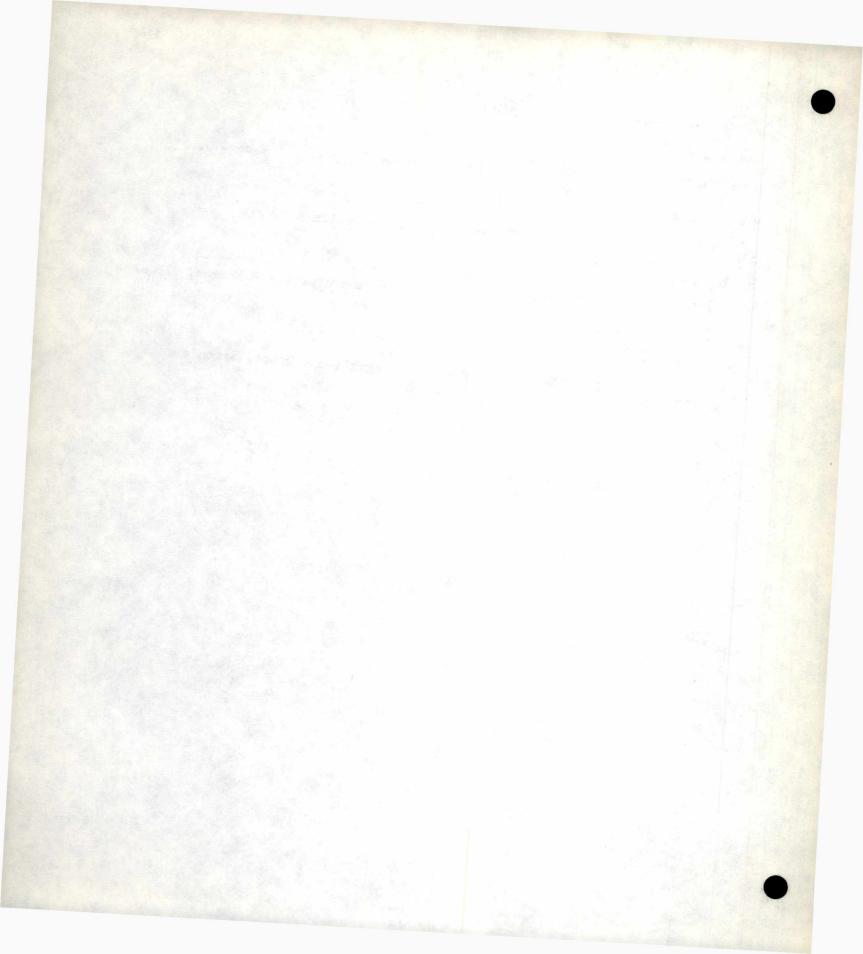
National Defence College - formation & function - Martin - p. 240

October 10, 1963

Navy - Cdn. Services Colleges - value - officer recruitment - Matheson, Plomer - p. 380

October 17, 1963

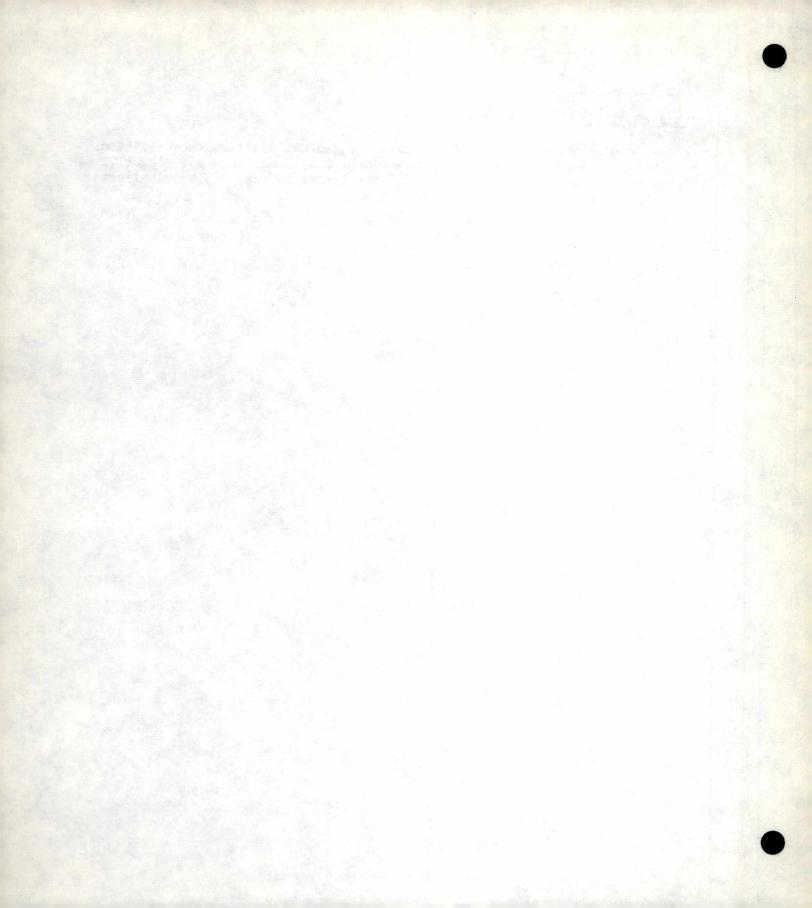
Tri-Service college training - tri-service integration - Groos, Simonds - pp. 468, 469



CHAPIAIN SERVICES

October 29, 1963

Unification of chaplain & medical services - wiped out duplication - additional book work - integration re hospitals - Winch, CGS, McMillan - pp. 616, 617, 618 Integration of Chiefs of Staff, medical & chaplain services resulted in increase of higher ranks - Groos, CGS - p. 618



CHIEFS OF STAFF

October 10, 1963

Navy - Flag Officer - law to himself - Plomer - p. 345
Min. & CNS held in ignorance - Plomer - p. 345
Senior officers leaving service - Plomer - pp. 345-46
Cdn. Admirals amateurs - Plomer - p. 348
Poor leadership at top - surgery re & promotion - chain of command Lloyd, McMillan, Granger, Fairweather, Brewin, Plomer - pp. 355, 363,
364, 372, 373, 374-75
Naval Board - composition - liaison with Min. - civilian appointment to tabling minutes of - Fairweather, Plomer, Winch - pp. 363-64, 370

October 15, 1963

Experience & qualifications of senior RCN officers - Lloyd, CNS - pp. 416-17

October 17, 1963

One Chief of Staff - Chiefs of Staff access to Minister - political decisions, etc. - Matheson, Simonds - p. 466
Roles of Chiefs of Staff - MacLean, Simonds - pp. 473-74
Chiefs of Staff - disagreement - role of Deputy Minister's staff - Smith, Simonds - p. 478
Brigadiers & Air Commodores - members of interservice staff - Smith, Simonds - p. 478
Chiefs of Staff - nature of advice to Minister - military & political aspects - civilian component - Defence Cttee. - Defence Council & Service Boards -

October 22, 1963

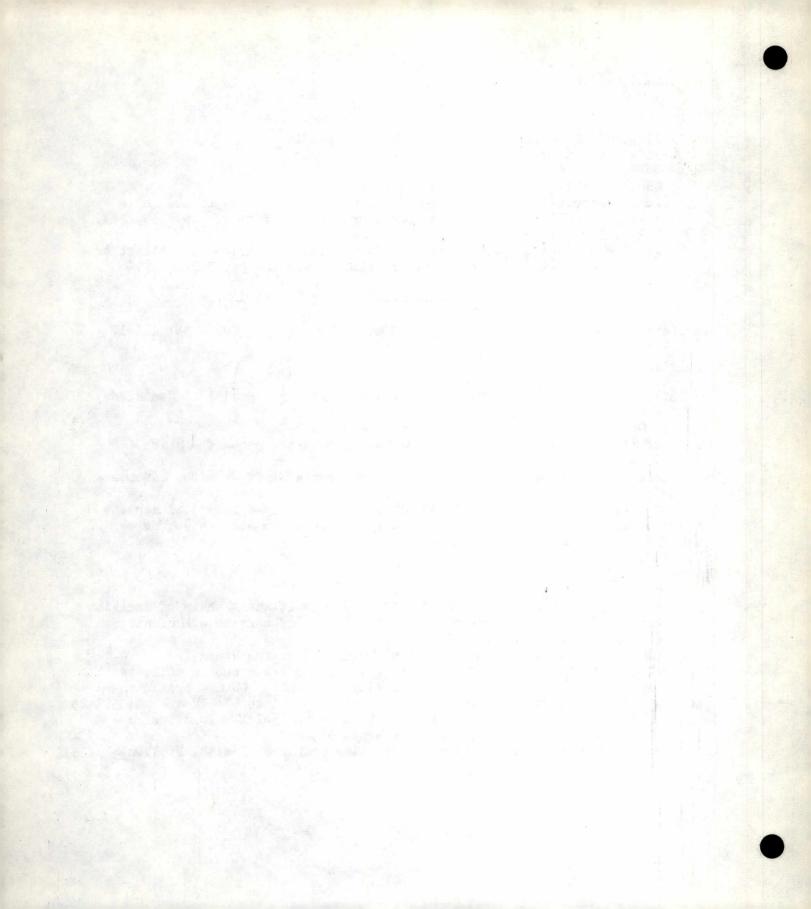
Lambert, Simonds - pp. 479-80

Chiefs of Staff - responsibility to own service & ambitions - chain of decision re defence policy - conflicts of interest - tenure of service - MacInnis, Foulkes, Groos - pp. 513, 515, 522

Integration of Services - establishment of Defence Research Board for integration of research - defence college for tri-service senior officers training - interruption by Korean War & establishment of CCO3 - possible future plans - interservice transfer of personnel - Winch, Foulkes - pp. 522-25 Function of Chiefs of Staff Cttee. re policy matters - political advice re -

Function of Chiefs of Staff Cttee. re policy matters - political advice re - Cabinet Defence Cttee. - Winch, Foulkes - pp. 525-26

Chiefs of Staff Cttee. resolution of conflicting problems - Smith, Foulkes - p. 534



CHIEFS OF STAFF - (Cont'd)

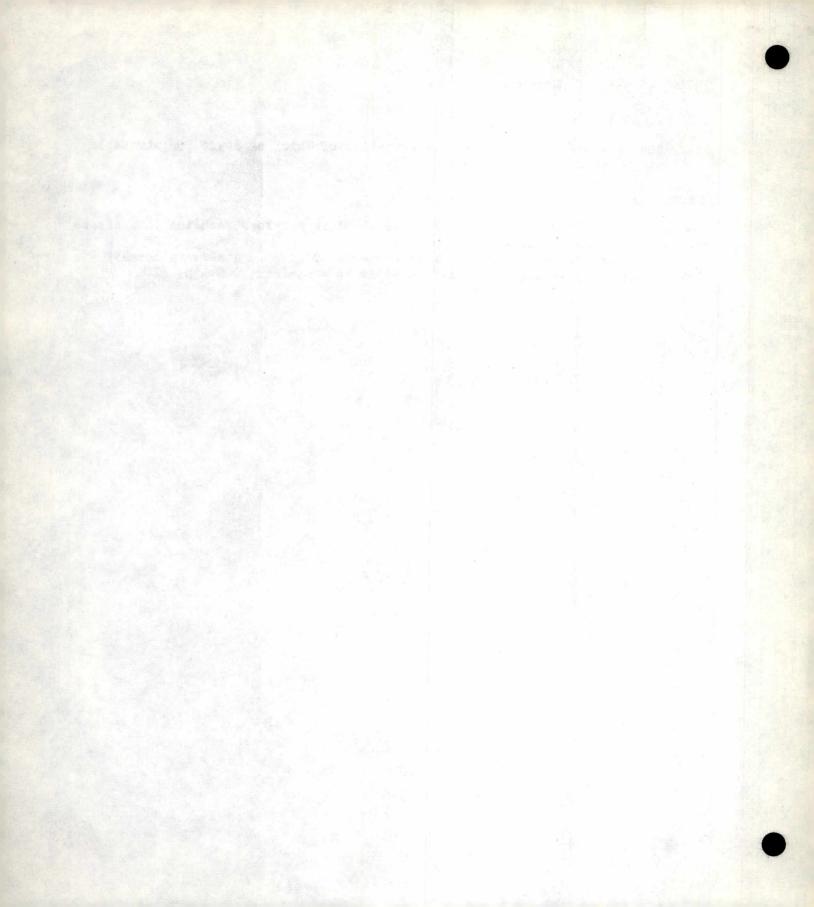
October 24, 1963

Civilians at Chiefs of Staff level - formation of Chief of Staff for strategic planning - Groos, Gellner - pp. 577-79

October 29, 1963

Integration of Chiefs of Staff, medical & chaplain services resulted in increase of higher ranks - Groos, CGS - p. 618
Conflict of role of Chiefs of Staff re advisers to gov't and service loyalty -

maintenance of ex-Chiefs of Staff as advisers - MacLean, CGS - p. 620



CIVILIAN PERSONNEL

October 22, 1963

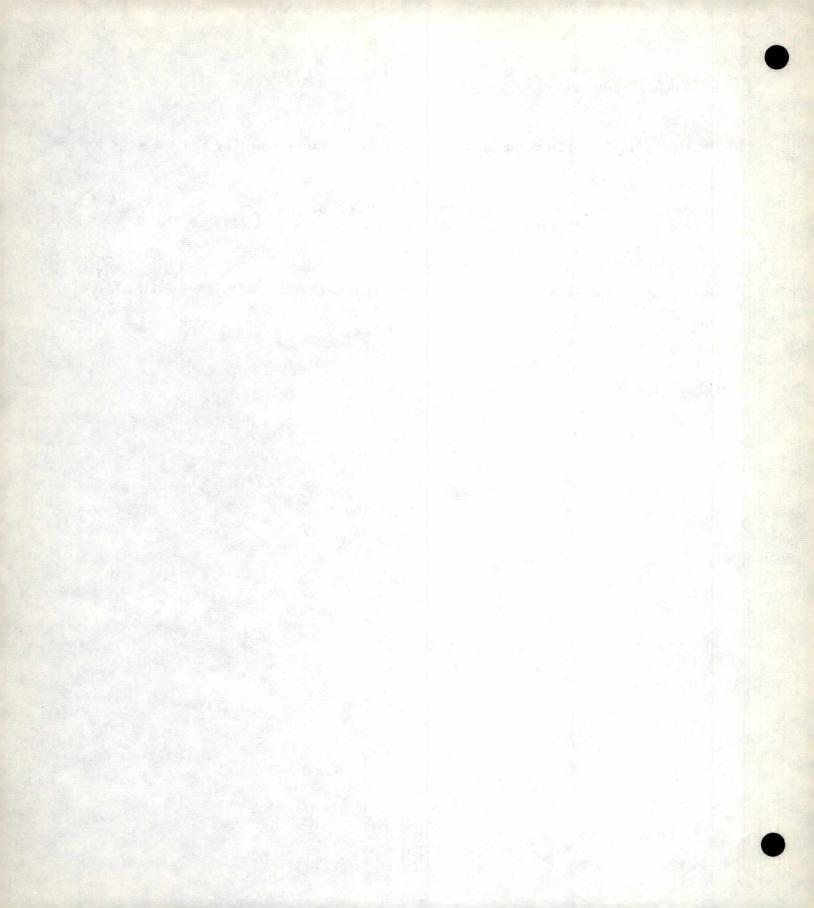
Integration of civilian personnel employed by Services - Smith, Foulkes - p. 535

October 29, 1963

Strength of civilian employees - McMillan, CGS - p. 594
Role & function of civilian personnel - McMillan, CGS - p. 617

October 31, 1963

Separation of civilians employed in Services & personnel officers - Smith, CAS - p. 654



CLOTHING, EQUIPMENT AND GENERAL STORES

October 15, 1963

Naval uniforms - CNS - p. 408

October 22, 1963

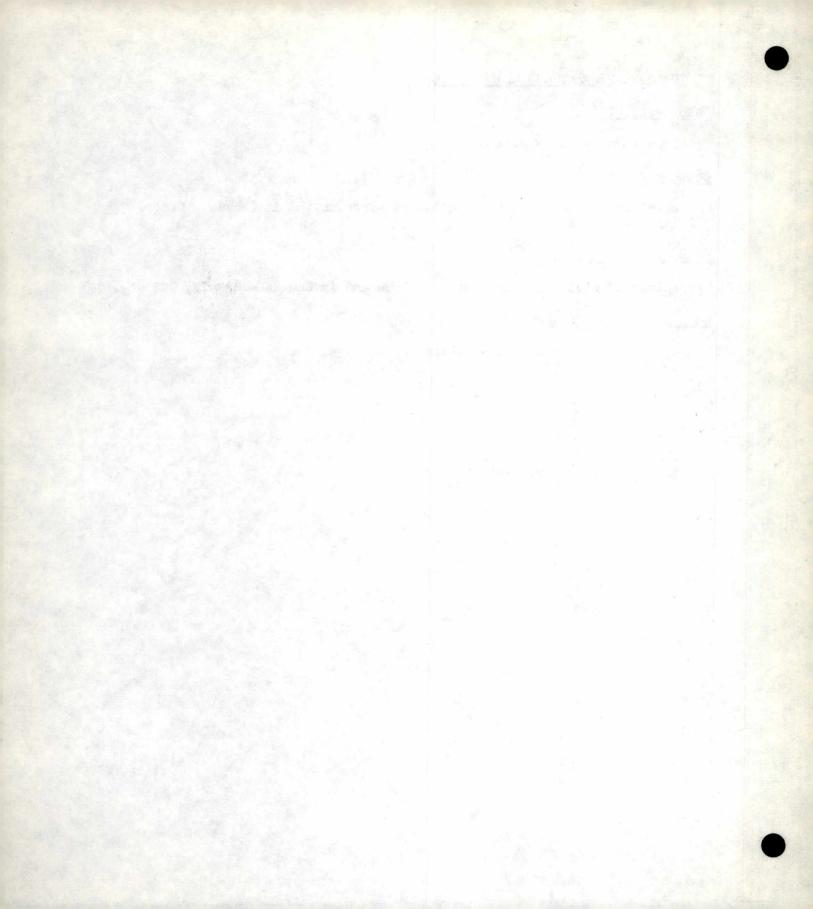
Criteria for length of life of equipment - production in Canada - Groos, Foulkes - p. 521

October 29, 1963

Percentage of equipment for Army in Europe and in Canada - Brewin, CGS - p. 593

October 31, 1963

Summer uniforms without hat - Patterson, CAS - p. 660



COMMITTEES

June 27, 1963

Security clearance of Cttee. members - Fairweather, Hellyer - p. 21

July 2, 1963

Bringing RCAF & USAF officers before Cttee. for briefing on Bomarc and visit to NORAD - Winch, Hellyer, Hahn - pp. 49-50, 53
Recommendation of policy - Groos, Hellyer - p. 53

July 4. 1963

Appearance of Air Force representatives - CCOS - pp. 67, 74 Cttee. exercise in futility - Churchill - p. 74 Role of and manner of procedure - Lloyd - p. 82

July 9. 1963

Cooking nuclear bomb - University of Alta. Scientist's brief - contradiction - calling of Dr. Scott - Brewin - p. 123

July 11, 1963

Calling of Dr. Scott - Brewin - p. 128
Payment of expenses - Winch, Lloyd - pp. 128-29
Responsibility and power to Cttee. - Winch, Hellyer, Churchill - pp. 156-58

July 16, 1963

Tabling of U.S. Def. Appropriations Hearings

July 25, 1963

Ministerial Cttee. on Joint Defence - formation & composition - meeting of Martin - p. 237

Permanent Joint Board of Defence - p. 237 - Martin
Formation & composition - Martin - pp. 237-38

Function - pp. 237-38

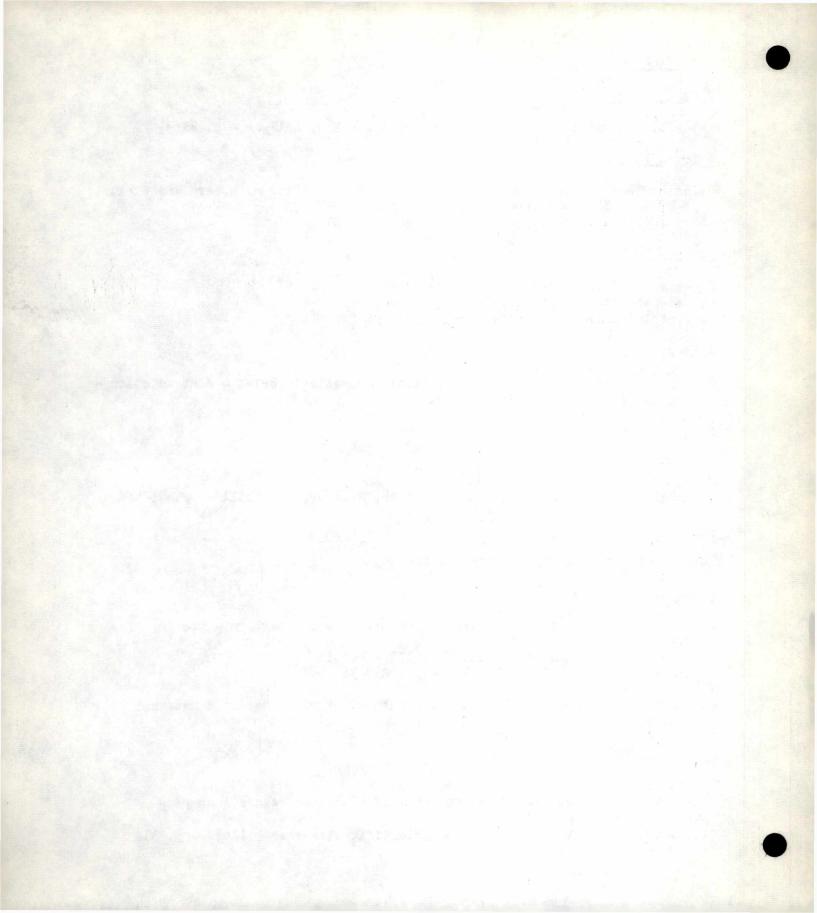
Request for breakdown of International Cttees. of DND & Dept. of External
Affairs - Deachman - pp. 246-47

August 1, 1963

Cttee. to accept written submissions - p. 287

Approval of per diem allowance for Univ. of Alta. professors appearing before Cttee. - p. 313

Cttee. concerned with capability of scientific witnesses - Lloyd - p. 314



COMMITTEES - (Cont'd)

October 15, 1963

Ad Hoc Cttee. on naval objectives - composition & function - CNS - pp. 398-99, 401, 411

RCN Personnel Structure Cttee. - function & composition - subsequent reorganization of personnel structure - CNS - p. 398

Ad Hoc Cttee. recommendations - versatility of fleet - general purpose frigates, anti-submarine role - A/A capability, etc. - Lloyd, CNS - pp. 414-15

October 17, 1963

Protest against press report that Cttee. dismissed CDR Plomer's charges of naval inefficiency, etc. - Brewin - p. 437

Protest against headline in <u>Citizen</u> indicating Simonds urged Canada to acquire its own H-bomb - Simonds, Smith - p. 459

Chiefs of Staff - nature of advice to Minister - military & political aspects - civilian componenent - Def. Cttee. - Chiefs of Staff Cttee. - Defence Council & Service Boards - Lambert, Simonds - pp. 479-80

Paper for Def. Cttee. by Mr. D.B. Scott, etc. of the Univ. of Alta. re recent appearance before Cttee. on nuclear bomb cooking - pp. 483-90.

October 22, 1963

Function of Chiefs of Staff Cttee. re policy matters - political advice re - Cabinet Def. Cttee. - Winch, Foulkes - pp. 525-26

October 24, 1963

Qualifications of Mr. John Gellner - Gellner - p. 551 Cttee. to submit interim report urging gov't to withdraw from nuclear commitments - Churchill - p. 587

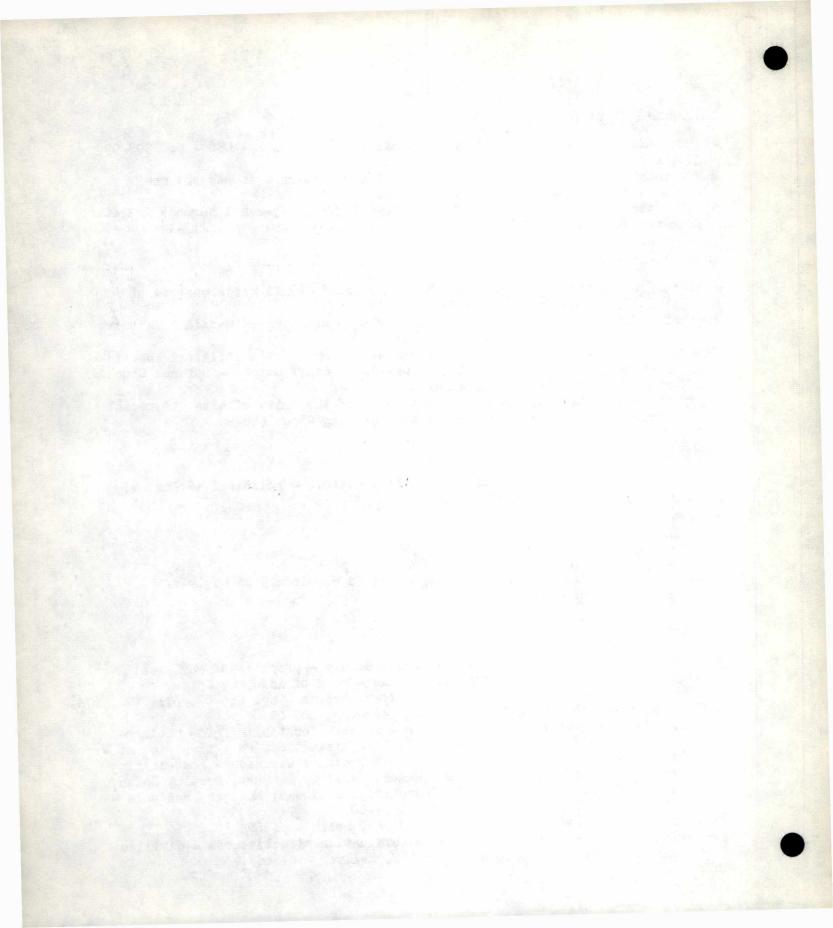
November 5, 1963

Review of policy & commitments - Navy requirements - procurement equipment programs - cancellation of frigate program - need of info. by Cttee. re - sharing of info. in camera - Winch, Hellyer, Brewin - pp. 665-67, 671, 672, 678. Cttee. deliberations - benefits of - Hellyer - pp. 667-68

Canada-U.S. agreement re nuclear weapons - request for tabling of - motion - difficulties re for Cttee. - possible future limitations re - time element - technical nature of - control, custody & storage of warheads - cost-sharing re- concurrence of NATO countries - Winch, Hellyer, Lambert, Brewin, Smith, Lessard, Patterson, Hahn, Ianiel, Churchill, Martineau, MacLean, MacInnis - pp. 668-69, 670-71, 672-73, 673-74, 678-79-80.

Preparation of Cttee Report in camera - Winch, Smith - p. 678

Sutherland Committee - purpose - systems evaluation effectiveness - civilian evaluation of military proposals - Smith, Hellyer - p. 688.



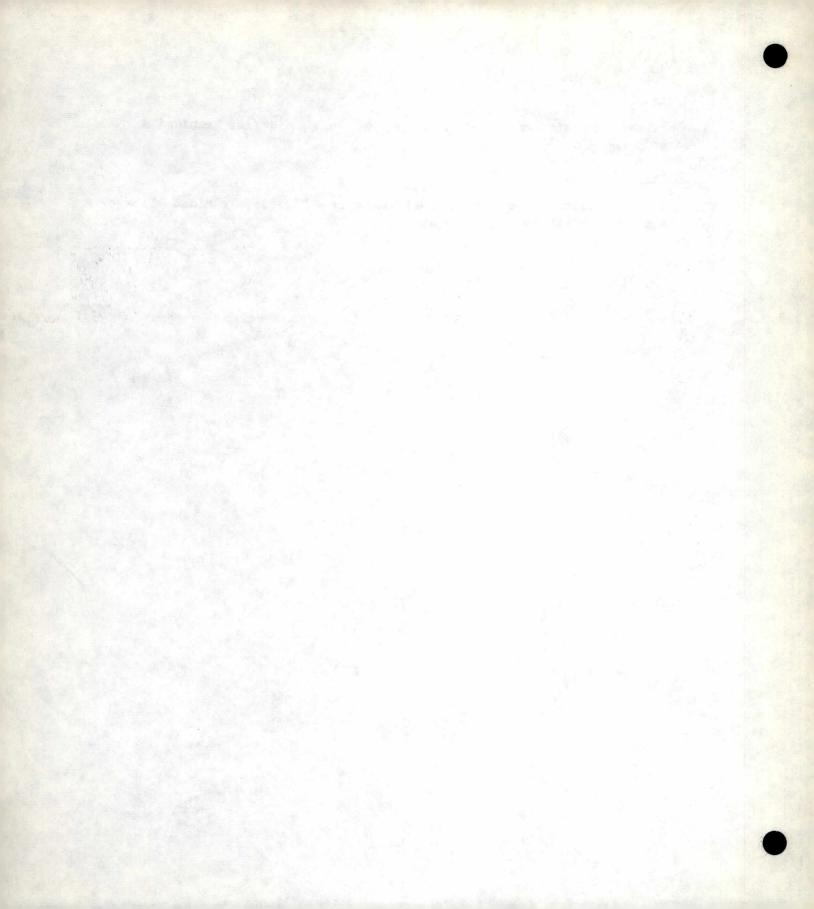
.COMMONWEA LITH

July 11. 1963

Army - training assistance to Armed Forces of Ghana, Nigeria, Trinidad & Tobago - CG3 - p. 149

July 25, 1963

Commonwealth assistance re armed forces training - Nigeria, Trinidad, Tobago, Ghana & India - Martin - pp. 239-40



COMMUNICATIONS

July 11. 1963

Army - signal eqpt. unsuitable - CGS - p. 137

Army - defence of Canada brigade - radio equipment for - CGS - p. 144

October 15, 1963

Communications - ship/air vs submarine/air - CNS - p. 429
Anti-submarine role & conventional war - convoy & supplies - control of sea communications - protection of Cdn. shores & shipping - Brewin, CNS - pp. 429-30.

October 22, 1963

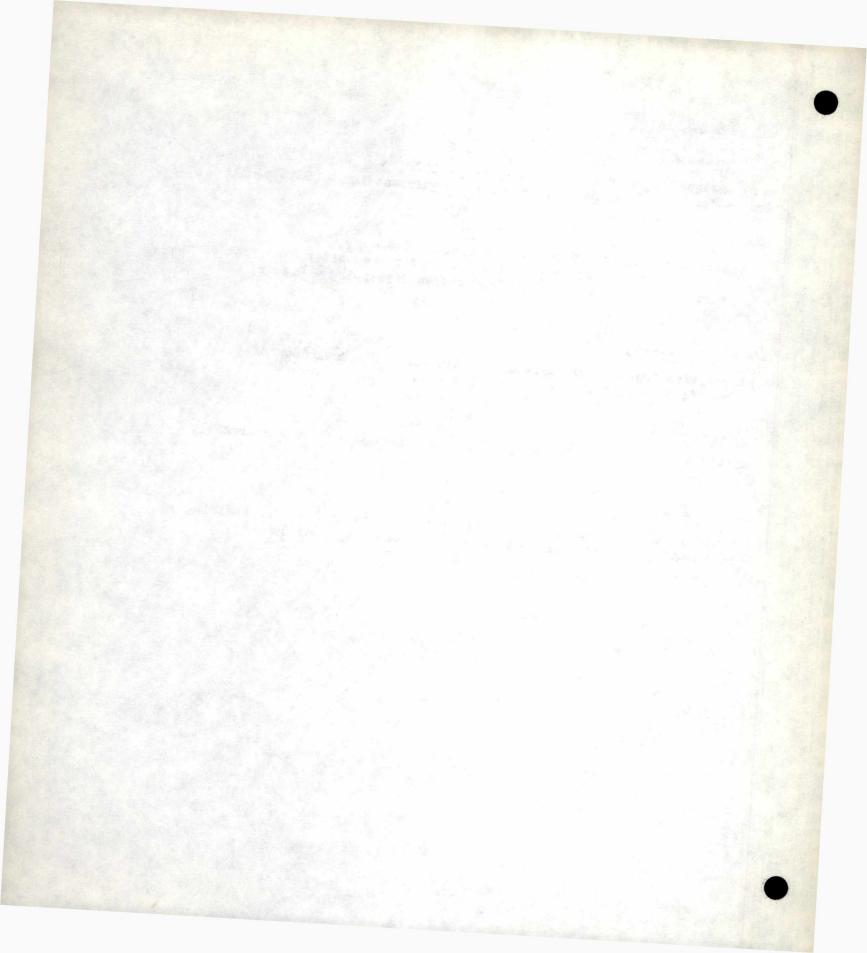
Interservice transfer of signallers - training of - breakdown of joint communication system - Smith, Foulkes - p. 538

October 29, 1963

Additional requirement for signal eqpt. & bridge transport - Churchill, CGS - p. 613

October 31, 1963

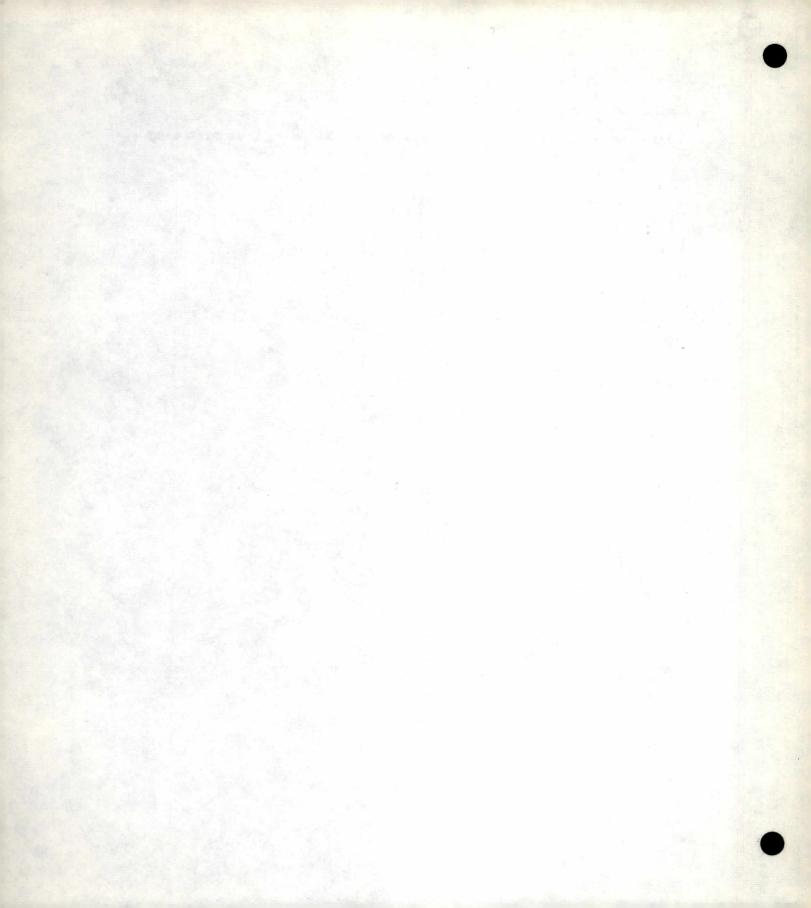
Individual service training establishments - re radar & signal training - business training specialization - Smith, CAS - pp. 653-55



COMMUNISM

July 25, 1963

Consideration of Chinese threat in view of separation in Communist camp - Hahn - pp. 251-52



CONTINENTAL DEFENCE - GENERAL

July 9, 1963

Navy - re sovereignty of Arctic - CNS - p. 90

October 10, 1963

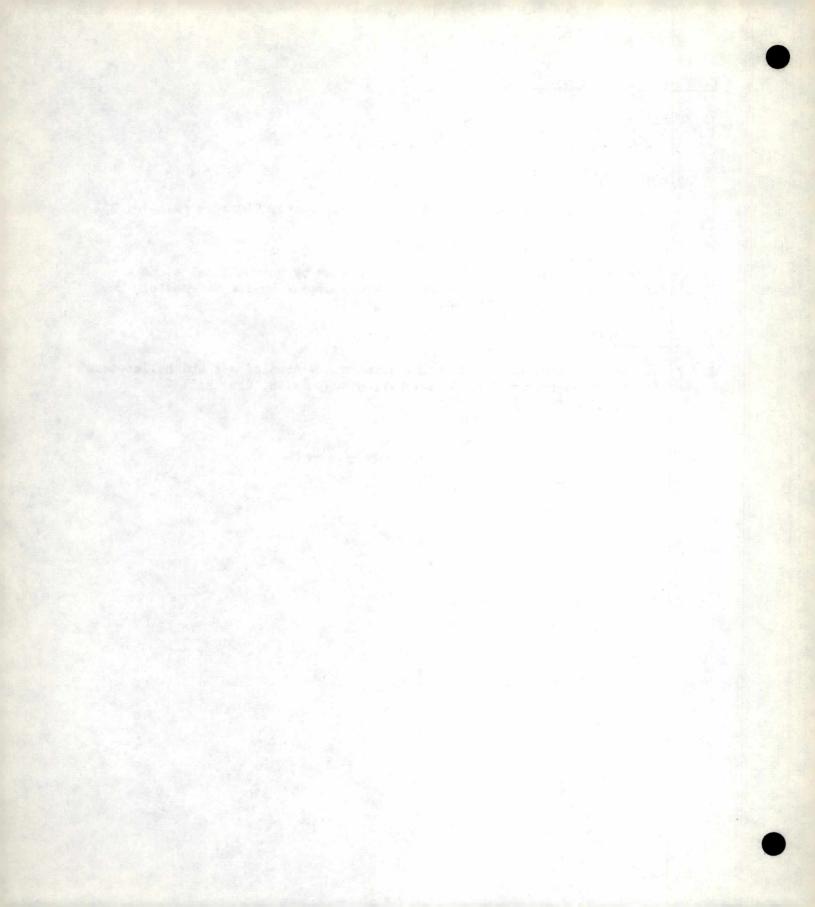
Protection of North with nuclear subs - Matheson, Smith, Plomer - pp. 350, 352

October 17, 1963

Europe can't be defended by nuclear arms - defence by conventional means - potential power of Russia - defence of Europe necessity for defence of North America - McMillan, Simonds - pp. 466-67

October 24, 1963

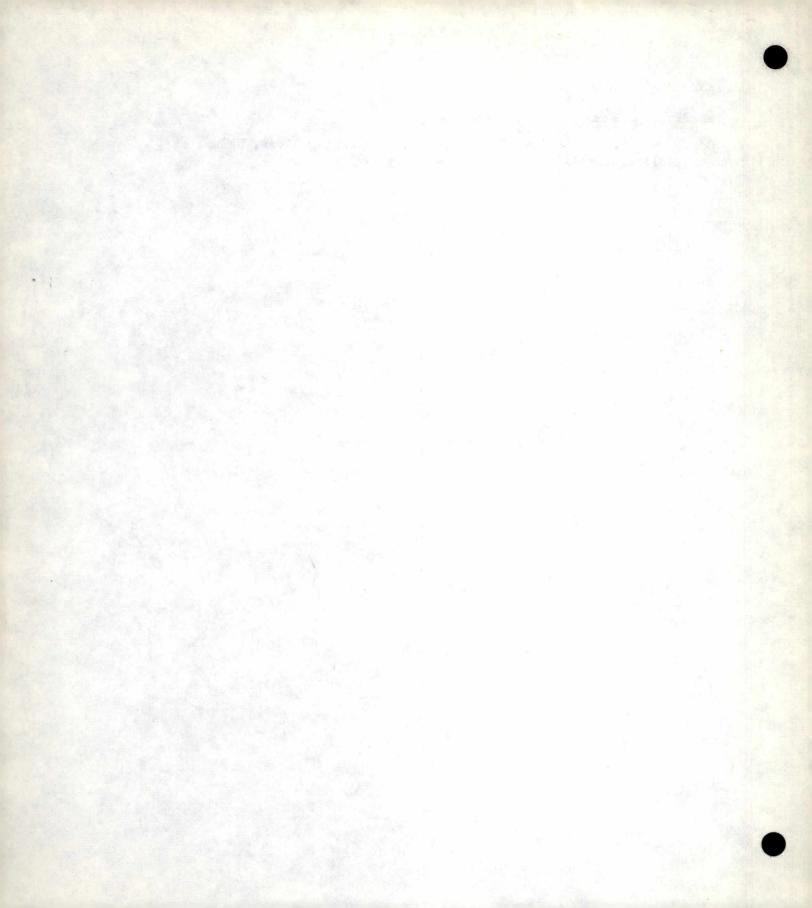
Air space recce. & monitoring submarine movements - need of a/c and helicopters and highly mobile ground force - Gellner, Groos, Smith, Churchill - pp. 559-60, 566, 568-69, 572, 586



CONTINENTAL DEFENCE - BMEWS

October 24. 1963

Cdn. contribution to U.S. deterrent - radar warning lines, BMEWS, etc. - refuelling facilities - Gellner - pp. 572-73



CONTINENTAL DEFENCE - NORAD

June 27, 1963

Establishment & function of - Hellyer - p. 16

Commanders of - Hellyer - p. 16

Radar lines & operation of - Hellyer - p. 16

SAGE centres of - p. 16 - Hellyer

ICBM & IRBM threat - Hellyer - p. 16

Nike-Zeus - development - Hellyer - p. 16

Limited to anti-bomber fleet - Hellyer - pp. 16-17

Cdn. contribution of Bomarc & CF101 - Hellyer - pp. 17, 18

Bomarc moved north to protect Cdn. cities - Hellyer - p. 17

Bomarc effective anti-bomber weapon - Hellyer - p. 17

Bomarc armed with atomic warhead to be effective & cook bomb - Hellyer - p. 17

Sqdns. under - Hellyer - p. 17

July 2, 1963

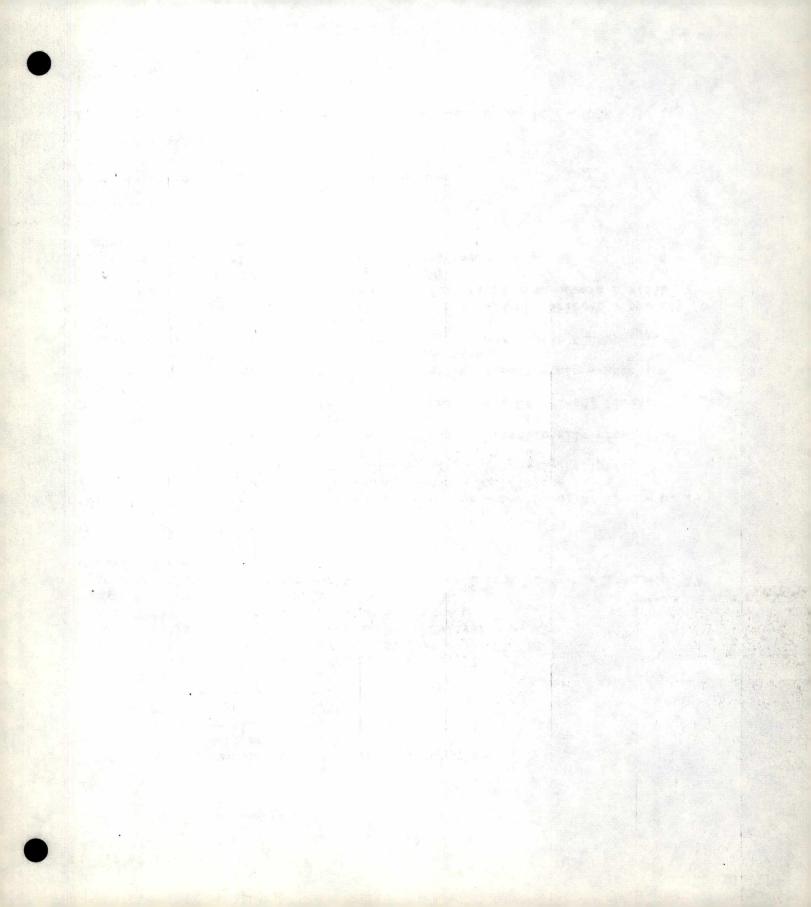
Vulnerability of Vancouver to air & missile attack - Deachman, Hellyer - p. 29 Objective to knock down bomber in isolated area - Dr. Field - p. 34 Cdn. contribution to NORAD - CF101, Bomarc, etc. - Matheson, Hellyer, Deachman - pp. 40, 43 U.S. contribution to NORAD - percentage nuclear & conventionally armed F101 & Bomarc, etc. - Lambert, Hellyer, Deachman - pp. 40, 43 Dummy bombers - complex & electronic countermeasures - Dr. Field, Lloyd, Hellyer - pp. 41, 42-43 Conventional vs nuclear equipped CF101 & relative effectiveness - location -Lambert, Hellyer, Temple, Deachman - pp. 43, 46-47 Flights of U.S. a/c over Canada - overflight privileges under NORAD -Lessard, Hellyer, Matheson - pp. 43, 48 Bomber threat not diminishing - intelligence re - Hellyer, Baldwin - pp. 44, 46 Bringing RCAF & USAF officers before Cttee. for briefing on Bomare & visit to NORAD - Winch, Hellyer, Hahn - pp. 49-50, 53 Effect of DEW Line strike on NORAD - McMillan, Hellyer - p. 53 Bomber vs ICBM - Hahn, Hellyer - p. 54

July 4. 1963

North American defence & NATO - CCOS - pp. 61-62

July 11, 1963

Army - survival operations - warning through NCRAD & DEW Line - CGS - p. 145



CONTINENTAL DEFENCE - NORAD - (Cont'd)

July 16. 1963

NORAD - CAS - pp. 163-69 Defence against manned bomber - CAS - p. 163 Missile & bomber threat - CAS - p. 163 Formation of - CAS - p. 163 Responsibility of - CAS - p. 164 Forces under - CAS - pp. 164-65 Strength of - CAS - p. 164 Organization of - CAS - pp. 164-65 Air defence flying units - location - CAS - pp. 164-66 CF101B & armament - CAS - p. 165 Bomarc - nuclear capability - CAS - p. 166 Air defence training - CAS - p. 166 Radar lines - manning & operation - CAS - pp. 166-68 CADIN - CAS - pp. 168. 183 SAGE - construction, function & operation - CAS - pp. 168-69 Satellite - detection & tracking - CAS - p. 169 60 hrs. week for air defence sqdns. - CAS - p. 169 Percentage of destruction of manned bombers - Brewin, CAS - p. 194

July 18, 1963

Visit to NORAD - TOP - pp. 201, 203
Defence research - scientists at NORAD - CDRB - p. 207

July 25, 1963

Membership in collective security of NATO, NORAD & U.N. - Martin - pp. 234-35, 238, 241

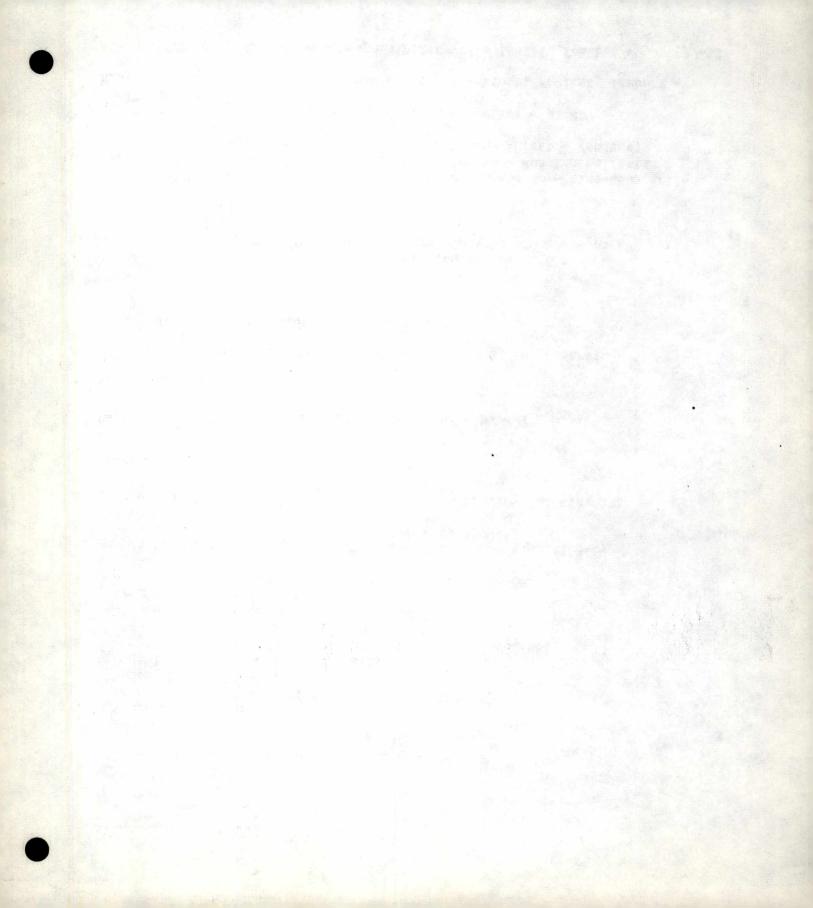
Canada-U.S. co-op re NORAD - Martin - p. 237

October 17, 1963

Anti-ICBM missile role for NCRAD - Hahn, Simonds - p. 458 Cdn. participation in NCRAD - no advantage - Winch, Simonds - p. 479

October 22, 1963

Defence of Canada-U.S. region - ICBM & bomber threats to - Nike-Zeus antiICBM defence - reduction of Cdn. contribution to - Russian ballistic
missile submarine threat to - future Chinese sub threat - Foulkes,
Laniel, Lambert - pp. 502-03, 506-07, 538, 541-42
Re-assessment of North American air defence - Foulkes - p. 207
NORAD formation - decision re - Foulkes - p. 510
History of gov't. approval of NORAD agreement - Winch, Foulkes, Lambert pp. 526-27
NORAD - function, operation & responsibility of - Laniel, Foulkes - pp. 537-38



CONTINENTAL DEFENCE - NORAD - (Cont'd)

October 24, 1963

Air space recce. & monitoring submarine movements - need of a/c & helicopters & highly mobile ground force - Gellner, Groos, Smith, Churchill - pp. 559-60, 566, 568-69, 572, 586

October 31, 1963

Reduction in number of air force sqdns. - efficiency - Ianiel, CAS - p. 641

NORAD - re-negotiation of - Matheson, CAS - pp. 650-51

Transport role - northern recce. & maritime roles for RCAF - CAS, Matheson - p. 652

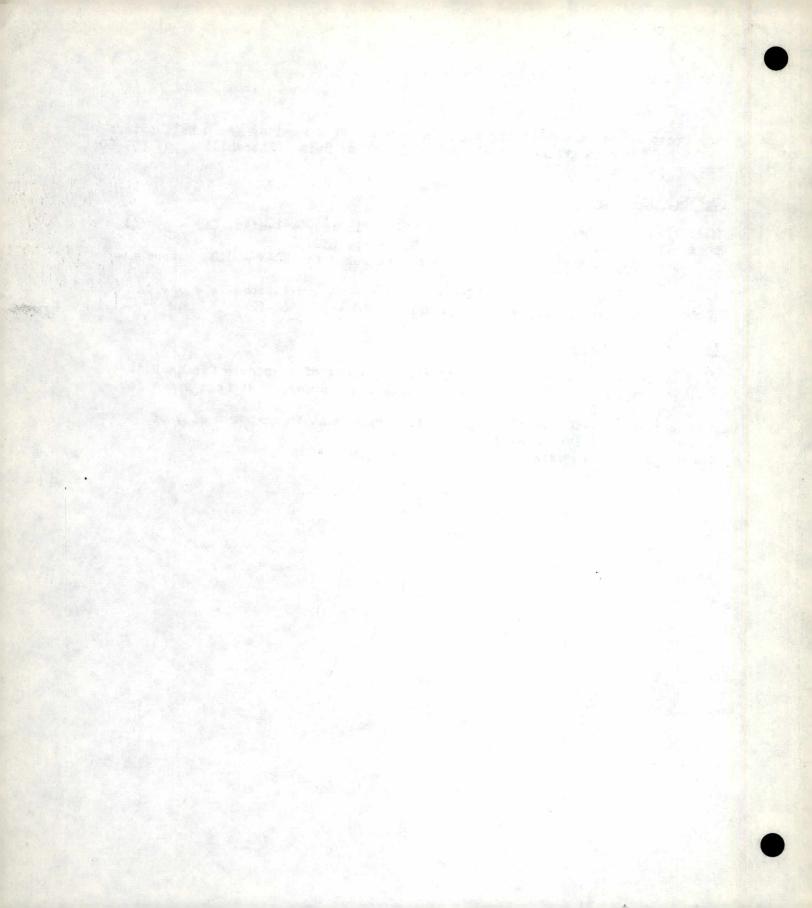
Roles re Canada-U.S. region, NATO & U.N. - budget limitations re - use of obsolescent equipment, etc. - Patterson, CAS - pp. 661-62

November 5, 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF101, Honest John, CF104 & Bomarc - storage space for - Hellyer - p. 665

Non-purchase of additional CF101's - re-arrangement in number & size of sqdns. re - Hellyer - p. 667

NCRAD agreement - review of - Hellyer - p. 670



CONTINENTAL DEFENCE - RADAR LINES

June 27, 1963

Radar lines & operation of - Hellyer - p. 16

July 11, 1963

Army - survival operations - warning through NCRAD & DEW Line - CGS - p. 145

July 16, 1963

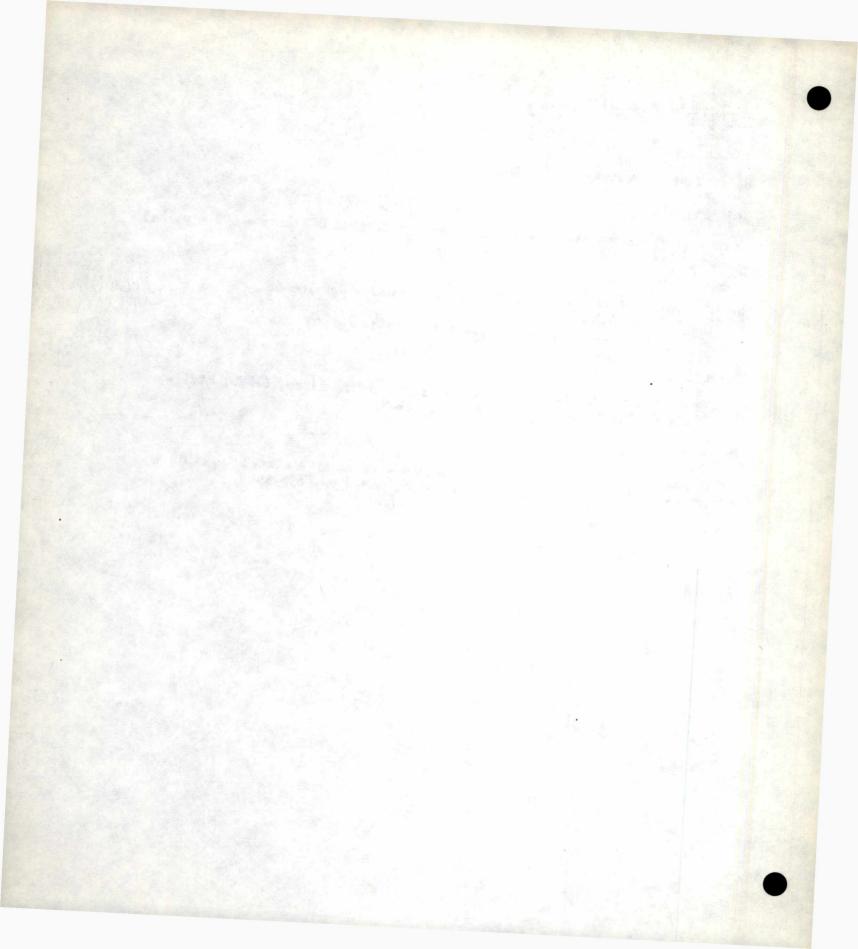
NORAD - radar lines - manning & operation - CAS - pp. 166-68 CADIN - CAS - pp. 168, 183 SAGE - construction, function & operation - pp. 168-69

October 24, 1963

Cdn. contribution to U.S. deterrent - radar warning lines, BMEWS, etc. - refuelling facilities - Gellner - pp. 572-73

October 31, 1963

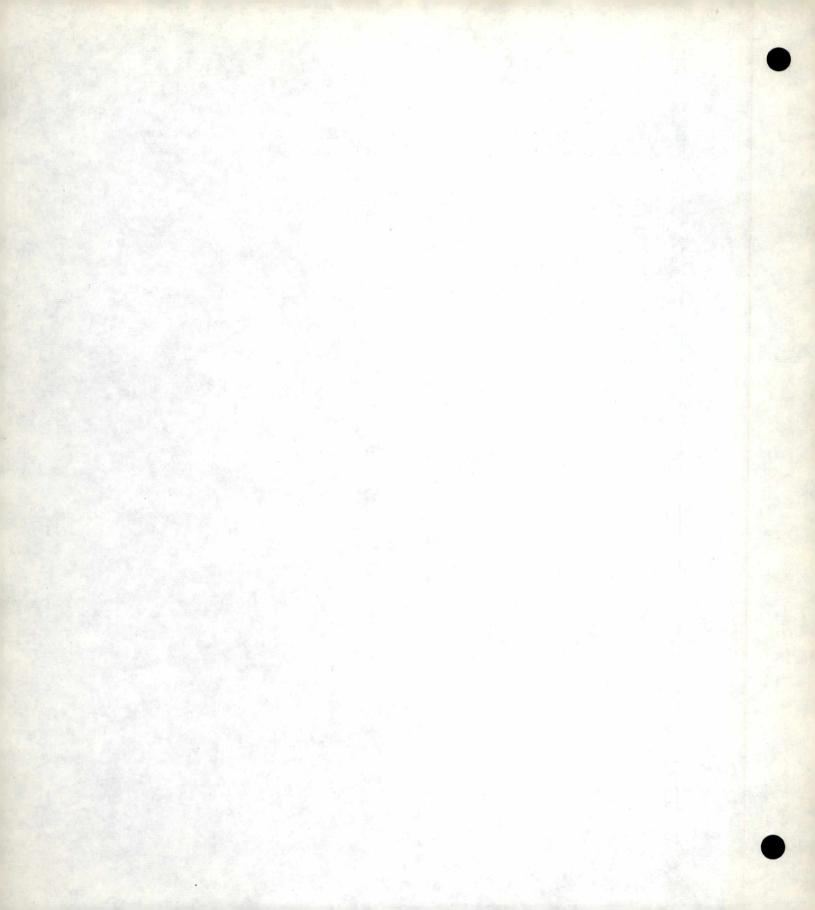
Individual service training establishments - re radar & signal training - business training specialization - Smith, CAS - pp. 653-55



CUBA

October 15, 1963

Operation availability of ships during Cuban crisis - CNS - pp. 397, 405 Ship deficiencies - during Cuban crisis - Churchill, CNS - pp. 420, 421



June 27, 1963

DRB Operations Research re defence - Hellyer - p. 20

July 2. 1963

Upper atmosphere - height of - Smith, Dr. Field - pp. 33-34

Dummy bombers - complex & electronic countermeasures - Dr. Field, Lloyd,

Hellyer - pp. 41, 42-43

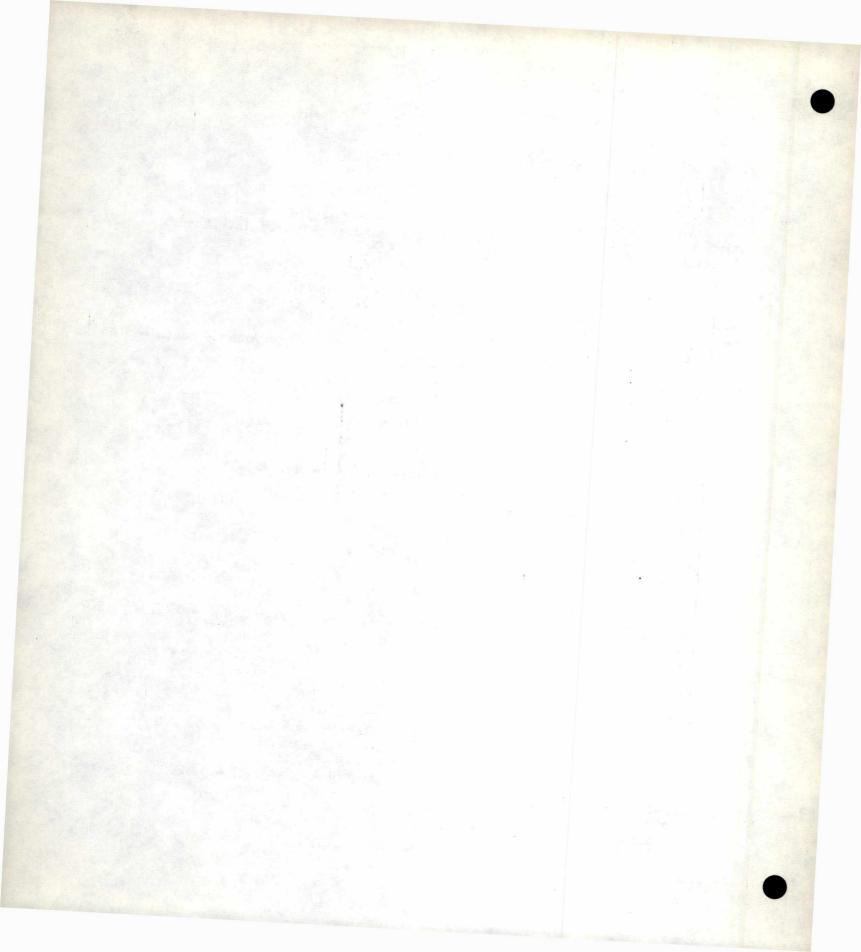
July 9, 1963

Navy - research ship - CNS - p. 104
Navy - hydrofoil - CNS - p. 107
Hydrofoil craft - development & construction, operation endurance - costs - role - Lambert, Temple, CNS - pp. 119-120
Hovercraft for a/s work - CNS - p. 122
Sonar - US acceptance - CNS - pp. 120-121

July 18. 1963

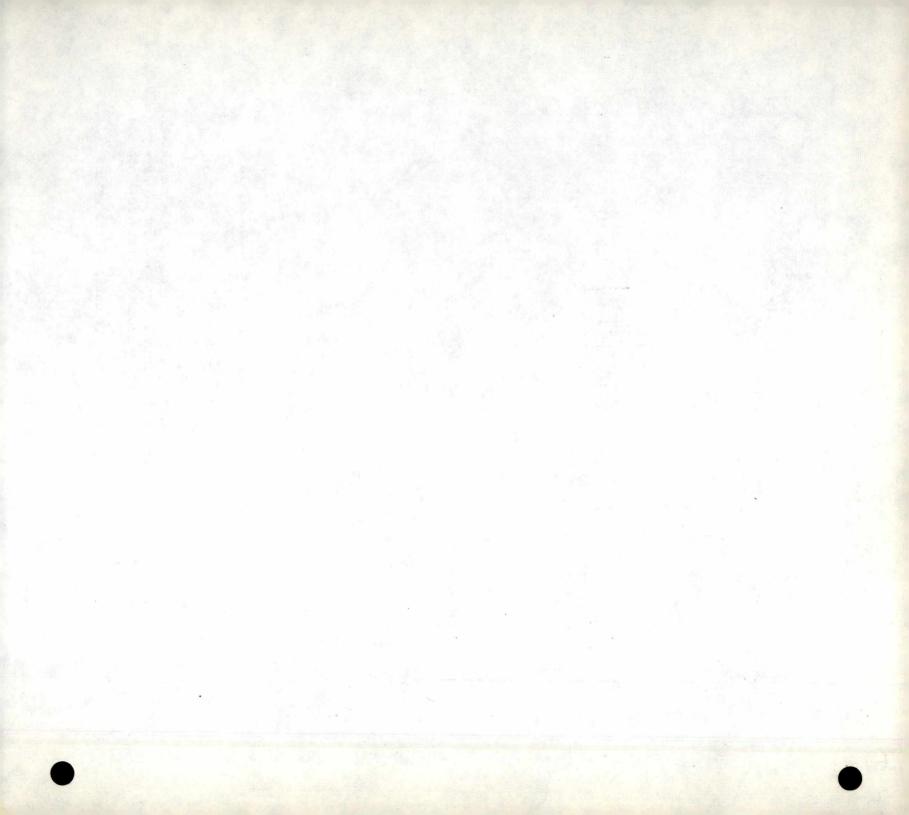
D.R.B.

Historical background of defence research - CDRB - pp. 203-04 Scope of operations - DND Act - CDRB - p. 204 Responsibilities - CDRB - p. 204 Organization - pp. 205-06 - CDRB Members - CDRB - pp. 206, 219-20 HQ staff function - CDRB - p. 206 Scientific group at CJS - CDRB - p. 206 Operational Research Corps - CDRB - p. 207 Responsibilities - CDRB - p. 207 Scientists at ADC, NORAC, SHAPE, SACLANT, 1 Air Div. & 4 CIB - CDRB - p. 207 Establishments - CDRB - p. 207 Function - CDRB - p. 207 Responsibility - CDRB - p. 207 Location - CDRB - pp. 207-10 Type of research - CDRB - pp. 207-10 Naval Research Establishment - CDRB - pp. 207-08 Cdn. Armament Research & Development Establishment - CDRB - p. 208 Defence Research Chemical Laboratories - CDRB - p. 208 Defence Research Kingston Laboratory - CDRB - p. 208 Defence Research Telecommunications Establishment - CDRB - p. 208 Radio Physics Laboratory - CDRB - p. 208 Communications Laboratory - CDRB - p. 208 Electronics Laboratory - CDRB - p. 208 Prince Albert Radar Laboratory - CDRB - p. 209



DEFENCE RESEARCH AND DEVELOPMENT (Cont'd)

```
July 18, 1963
D.R.B. (Cont'd)
    Defence Research Medical Laboratories - CDRB - p. 209
     Defence Research Northern Laboratory - CDRB - p. 209
    Suffield Experimental Station - CDRB - p. 209
     Pacific Naval Laboratory - CDRB - p. 209
   Sonar - CDRB - pp. 207, 212
     Adoption by RCN & RN - CDRB - p. 208
   Personnel - CDRB - pp. 209-10
    Number - CDRB - p. 210
     Turnover - CDRB - p. 210
     University students - CDRB - p. 210
  Research - CDRB - pp. 206-09, 210-12
     Intramural - basic & applied - CDRB - pp. 210-11
      Defence against guided missiles & bombers - CDRB - p. 211
      Anti-sub - CDRB - p. 211
       Tactics - CDRB - p. 211
      Survival - CDRB - p. 211
     Extramural - CDRB - pp. 211-12, 13
       Grants-in-aid for - CDRB - p. 211
       Expenditure for - CDRB - p. 211
       Number of projects - CDRB - p. 211
       Contracts for - CDRB - p. 212
      Defence Industrial Research Program - CDRB - p. 212
         Co-op with DDP - CDRB - p. 212
         Projects - number - CDRB - p. 212
   Development Program - CDRB - p. 212
     Co-op with DDP - CDRB - p. 212
     Function - CDRB - p. 212
    Sharing program - CDRB - p. 212
   Expenditures for defence research - CDRB - p. 213
    Alouette & subsequent satellites - CDRB - p. 213
   Advisory Cttees & panels - CDRB - p. 213
   Co-op with UK & US - CDRB - pp. 213-14
   Co-op with NATO
   NATO fellowship program - p. 214 - CDRB
   Alouette satellite - purpose , launching, etc. - CDRB - pp. 214-18
     Operation of - CDRB - p. 218
   NRC & DRB spheres of research - Hahn, CDRB - p. 219
   NRC research in radar & radio - Hahn, CDRB - p. 219
   Transfer of Info between DRB & NRC - CDRB - p. 219
   Meeting of DRB & members of - selection, etc. - Smith, CDRB - pp. 220-21
   Evaluation of research by Operational Research Corps - Smith, CDRB - pp. 220-21
   Aid to universities to undertake research - amounts - Deachman, Matheson,
     CDRB - pp. 221-22, 224-25
   Arrangements with industry re development & production & production
     sharing - Deachman, CDRB - pp. 222-23
```



July 18, 1963

D.R. . (Cont'd

Classified info from US made available on "Need to Know Basis", i.e., nuclear weapons, cooking effect, etc. - Winch, CDRB - pp. 223-24 state & replacement of scientific personnel - restricted by austerity program - Churchill, Matheson, CDRB - pp. 224-25, 227

Research grants to universities - number & amount - Deachman, CDRB - pp. 225, 226

Research program not cut back by austerity program - amount of budget - Deachman, CDRB - p. 225

Research in anti-ICBM defence & survival - co-op with UK - explosives in kiloton range - Lessard, CDRB - pp. 226-27

August 1, 1963

Effectiveness of nuclear armed Bomarc of CF-101 against bomber carrying hydrogen bombs - cooking vs triggering -

Dr. Scott - pp. 287-92, 293, 294, 295, 297, 298, 300, 303, 305, 308, 310, 311, 312

Dr. Keyston - pp. 292, 293, 295, 298, 299, 301, 302, 305-06, 309, 311, 312-13

Matheson - pp. 293, 294, 295, 301, 307 Dr. Trainor - pp. 294, 296, 301, 307, 310

Fairweather - p. 295

Churchill - pp. 295, 301, 302, 304, 305, 309

Groos - pp. 296-97

Temple - pp. 297-98, 305

Dr. Sample - pp. 298, 299, 306, 312, 313

Lambert - pp. 298, 299, 312, 313

Dr. Field - pp. 299-300, 308-09

Smith - p. 300

Hahn - pp. 301, 302, 307

Asselin - pp. 302, 303-04, 305, 311

Baldwin - p. 304

Lloyd - p. 304

Brewin - pp. 305, 306, 307

Deachman - p. 308

MacLean - pp. 310-11

McMillan - pp. 311-12

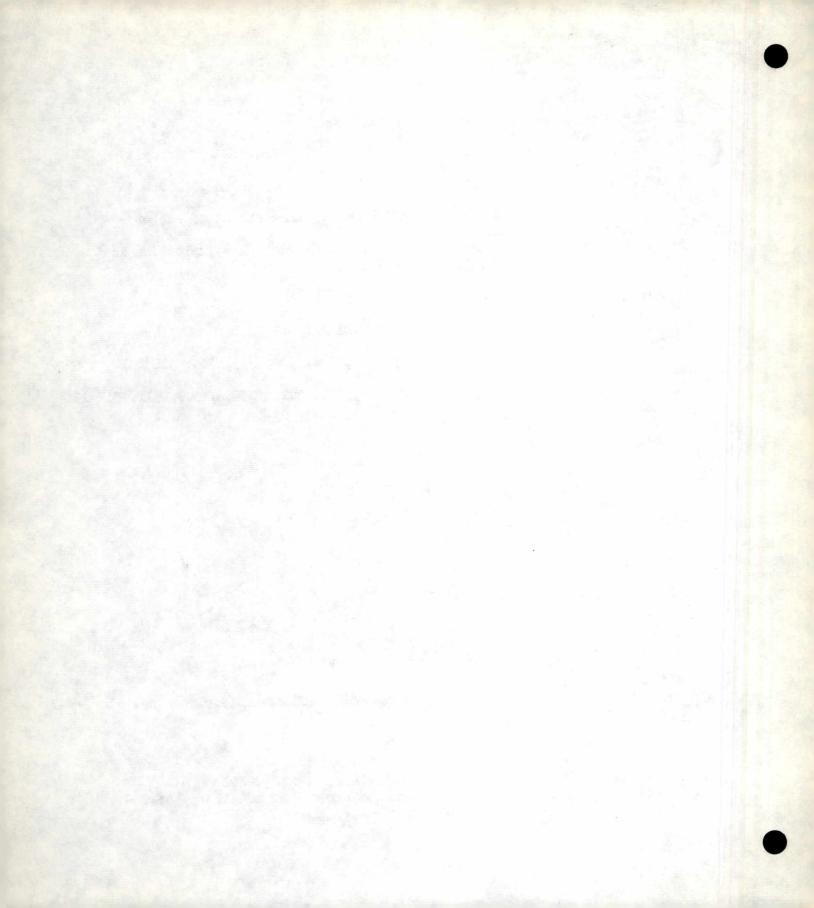
General appraisal of steps taken by DND re conclusion of nuclear cooking, etc. - Lloyd - p. 314

October 15, 1963

Detable It,

Testing & development of new equipment - MacLean, CNS - p. 402

Development of 3.70 AA gun - 5.54 gun and surface-to-air missiles - cost - use by RN and USN - MacRae, CNS, Winch - pp. 412-13



October 17, 1963

Development of submarine cargo or supply ships - Lloyd, Simonds - pp. 448-49

Defence research - greater emphasis - examination of submarine cargo carrier co-ordination of - Deachman, Simonds - pp. 469-70

Paper for Defence Committee by Mr. D.B. Scott, etc. of University of Alta.

re recent appearance before Cttee on nuclear bomb cooking - pp. 483-90

October 22, 1963

Defence research & technological development - Foulkes - p. 494
Establishment of combined scientific & operational group - Foulkes - p. 496
Anti-nuclear submarine defence requirement - development of - Foulkes - p. 506
Integration of Services - establishment of Defence Research Board for integration of research - defence college for tri-service senior officer training - interruption by Korean War & establishment of CCOS - possible future plans - interservice transfer of personnel - Winch, Foulkes - pp. 522-25

Tracker - carrier anti-submarine defence - missile sub threat - studies and research re - Brewin, Foulkes - pp. 538-40

October 29, 1963

Bobcat - need of - weaknesses indicated by trials - decision re - purpose - spare parts re - initiation design date & subsequent tests - modifications for artillery mounting - comparison to other NATO & Russian models - Lessard, CGS, Hellyer, Deachman, Smith, Hahn, Churchill - pp. 600-01, 606-09, 611-12

Lessons re Bobcat development & production - future design & development of equipment for sale to MATO countries - success in field - Deachman, Hellyer, Smith, Matheson, Churchill - pp. 608-09, 611

October 31, 1963

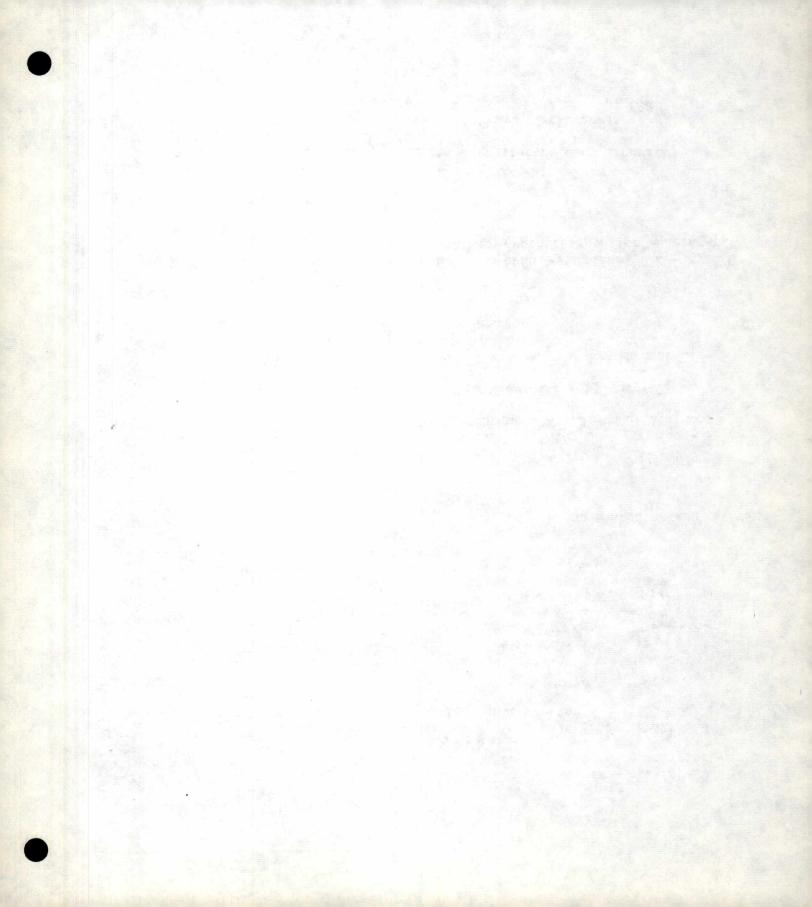
US tests re nuclear vs conventional anti submarine arms - McMillan, CAS - p. 648 Aerial recce re submarines - research re - nuclear depth charges for - Granger, GAS - p. 652

November 5, 1963

Anti-submarine studies - re future - Hellyer - p. 667

Future research re anti-submarine capability - greater role by aircraft - Lessard, Hellyer, Smith - pp. 684, 686, 687

Sutherland Committee - purpose - systems evaluation effectiveness - civilian evaluation of military proposals - Smith, Hellyer - p. 688



DEPARTMENTAL ADMINISTRATION AND ORGANIZATION

July 16, 19 3

Budget & finance operations - CAS - p. 183

Percentage on capital outlays & operations & maintenance - CAS - p. 183

Management practices - CAS - pp. 183-84

RT" management techniques - CAS - p. 184

Utilization of Glassco Commission suggestion - CAS - p. 184

Abbreviations appended re defence - CAS - pp. 198-99

July 25, 1963

DND and Ex Aff. co-op - Martin - p. 235

Co-op of Disarm. Div. of Ex. Aff. & Directorate of Strategic Studies of DND - Martin - p. 238

Cdn. contributions to U.N. actions - DND, Ex. Aff. & UN co-op re - Martin - pp. 238, 239, 241, 242

July 30. 1963

DDP - Co-op with DND - Drury - pp. 259, 269-70, 275

October 15, 1963

Navy - management studies - maintenance studies - costs & savings - Lambert, CNS - pp. 426-27

October 17, 1963

Givilian weapons evaluation - Smith, Simonds - p. 455

One Chief of Staff - Chiefs of Staff access to Minister - political decisions, etc. - Matheson, Simonds - p. 466

Roles of Chiefs of Staff - MacLean, Simonds - pp. 473-74

Chiefs of Staff - disagreement - role of Deputy Minister's staff - Smith, Simonds - p. 478

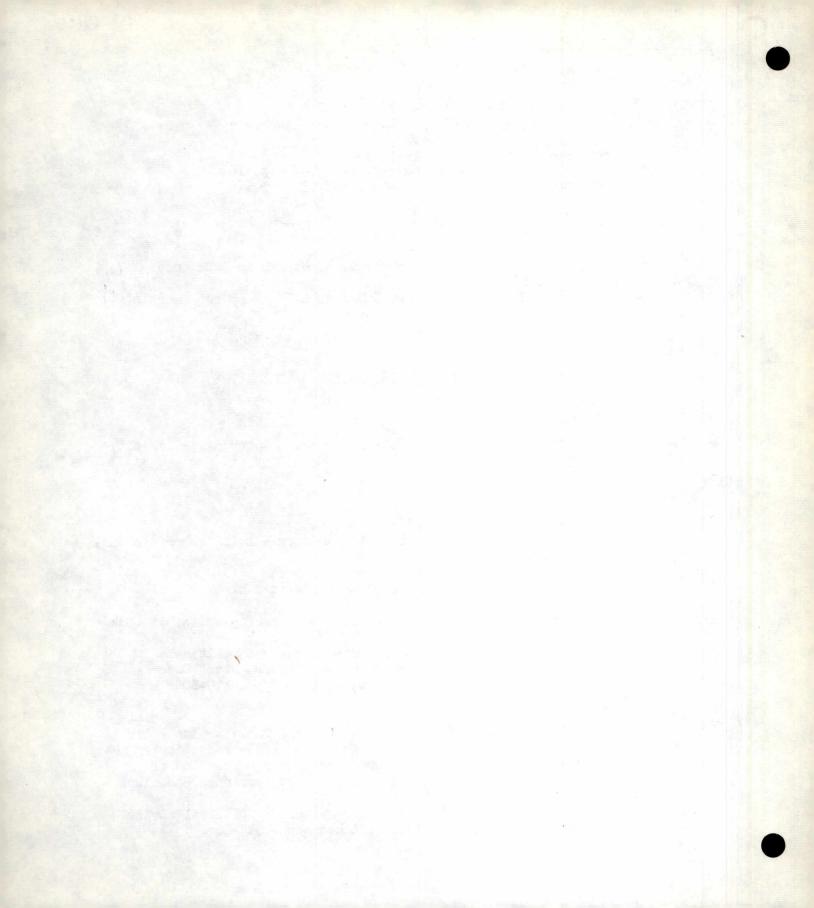
Brigadiers & Air Commodores - members of interservice staff - Smith, Simonds - p. 478

Chiefs of Staff - nature of advice to Minister - military & political aspects - civilian component - Defence Cttee - Chiefs of Staff Cttee - Defence Council & Service Boards - Lambert, Simonds - pp. 479-80

October 22, 1963

Growth of organization when function redundant - Korean Bde. surplus - Air Force manpower surplus when NATO air training completed - reduction of Air Div., automation of Sage System - surplus manpower - adoption of stringent manpower policy - interservice movement of personnel - Foulkes - pp. 500-501

Function of Chiefs of Staff Committee re policy matters - political advice re - Cabinet Defence Committee - Winch, Foulkes - pp. 525-26



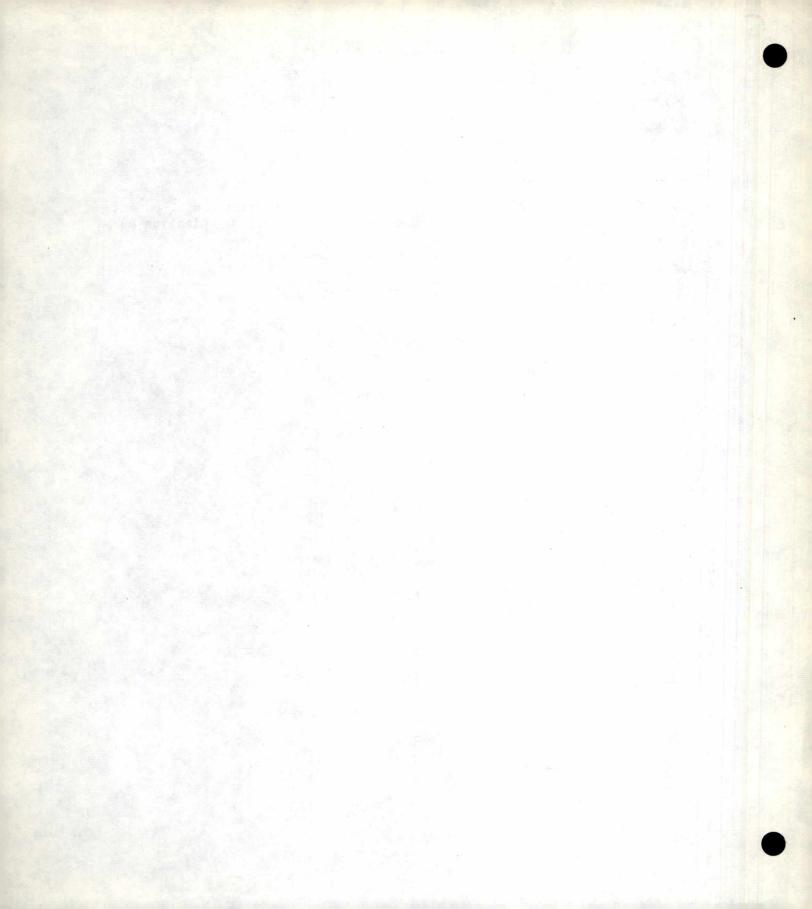
DEPARTME TAL ADMINISTRATION (ORGANIZATION (Cont'd)

October 24, 1963

Givilians at Chiefs of Staff level - formation of Chief of Staff for strategic planning - Cross, Cellner - pp. 577-79

October 29, 1963

Reduction in functions without reduction in manpower not case - disbandment of Bde. after Korea - top-heavy set-up - review of Army organization by Gen. Allard - cut back in HQ size - Winch, CGS - pp. 615-16
Role & function of civilian personnel - McMillan, CGS - p. 617
Concentration of supply depots & utilization of air freight - re-organization of ordnance services re - MacLean, CGS - p. 619



DEPARTMENT OF DEFENCE PRODUCTION

July 18, 1063

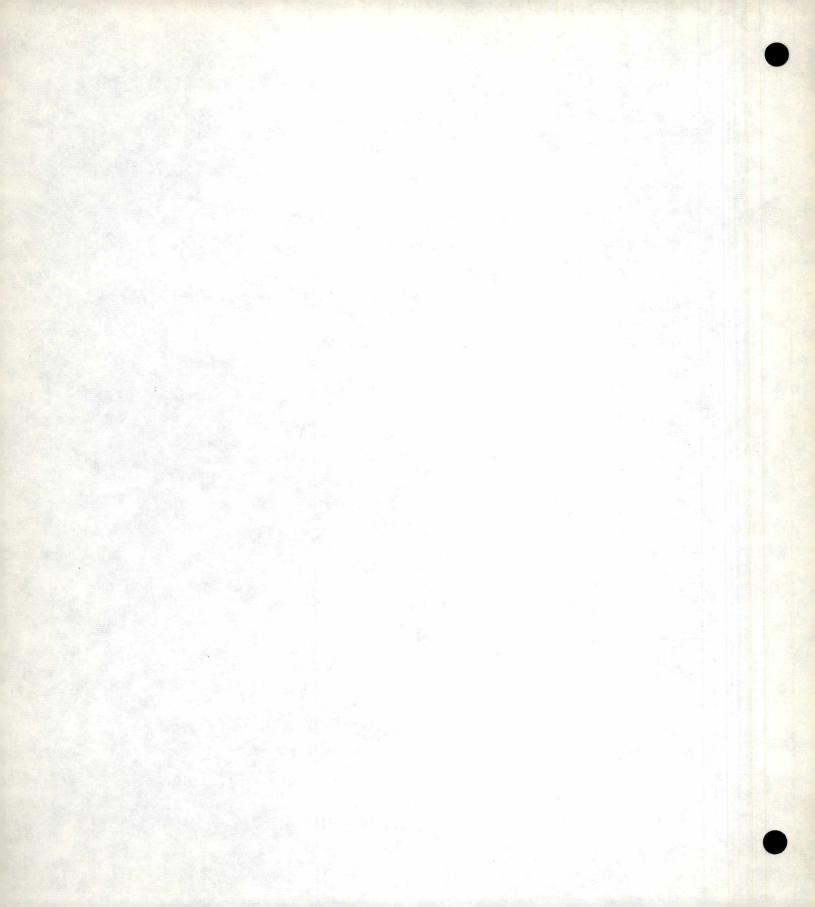
Defence Industrial Research Program - CDRB - p. 212
Co-op with DDP - CDRB - p. 212
DRB Development Program - co-op with DDP - CDRB - p. 212

July 30, 1963

Function & responsibilities of DDP - Drury - pp. 258-60, 267-68, 269, 275. 273-79, 279-80 Responsibility of DCL - Drury - p. 259 Co-op with DND - Drury - pp. 259, 269-70, 275 Expenditures & sales of - Drury - pp. 258, 276, 277 Purchasing - suppliers & tenders - Drury - pp. 258-59, 262-63, 276-77, 280-81 Negotiated & target prices - Drury - pp. 259, 272-275 Organization of - Drury - pp. 261-63 Aircraft production program - Drury - pp. 262, 264 Electronics program - Drury - p. 262 Armament program - Drury - p. 262 Shipbuilding program - Drury - pp. 262, 272-73, 274 Sub-offices abroad - Drury - p. 263 Emergency supply branch - organization & function - Drury - p. 263 Production sharing - Drury - pp. 260, 264-68, 280 Can.-US - amounts - Drury - pp. 264-66, 268 NATO - amounts - Drury - pp. 266-68 Cdn. Commercial Corp. services - Drury - p. 267 Classeo recommendations being implemented - Drury - p. 269 Inventories & stockpiling - Drury - pp. 270-72 Cdn. Arsenal stockpiling of ammunition - Drury - p. 272 Contract profit ceiling - Drury - pp. 273-274 Standardization of weapons in NATO - Drury - p. 276 Co-op with Dept. of Industry - Drury - pp. 278-79 Food supply of Cdn. NATO forces - Drury - pp. 281-82

October 22, 1963

Criteria for length of life of equipment - production in Canada - Gros, Foulkes - p. 521



DEPTIDENTS

October 17. 1963

Forces in Europe - shorter rotation periods - dependents removal - Smith, Simonds - p. 456

October 22, 1963

Depe dents - movement from Europe - costs - Foulkes - p. 517

October 29. 1963

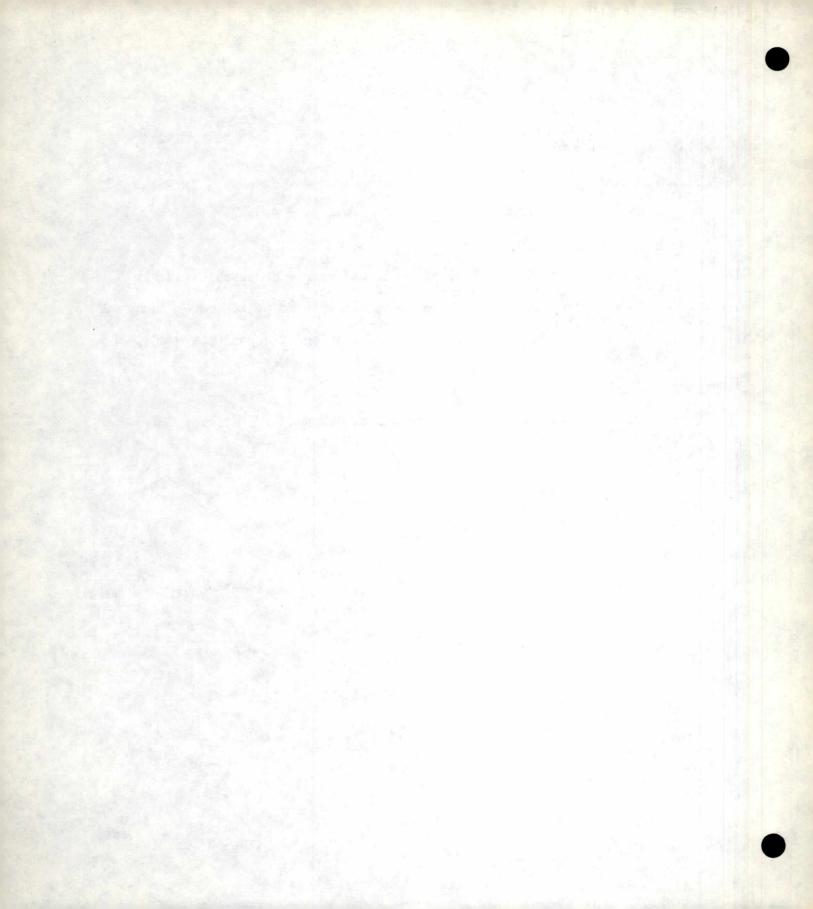
Rotation of Bde. personnel - limitation to one year - despatch of single units without dependents - Winch, CGS - p. 596

Evacuation of dependents in emergency - number of - no policy re - Winch, CGS, Hellyer, McMillan, Lambert - pp. 596-97-98

Lack of air transport limiting factor re evacuation of dependents - CGS, Smith - pp. 599-600

October 31. 1963

Strength of 1 Air Div. & 4th Bde. - number of dependents - MacRae, CAS - pp. 638-39



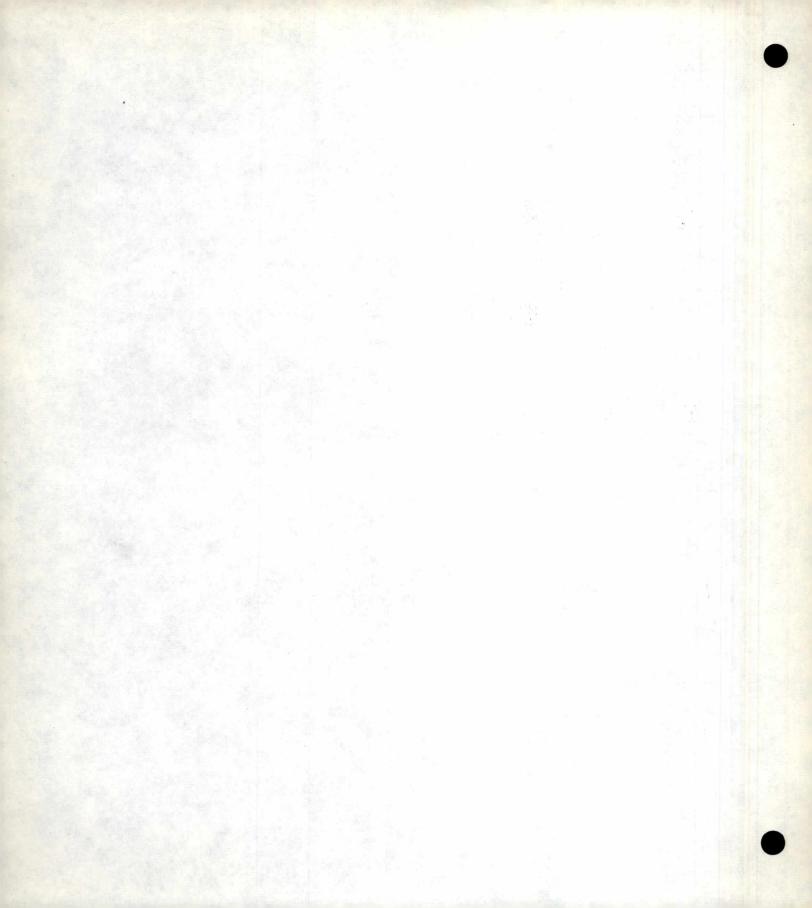
DISAMAME

July 25, 1963

Disarmament efforts - need of - Martin - p. 238
Co-op of Dicarm. of Ex. Aff. & Directorate of Strategic Studies of DND Martin - p. 238
Disarmament efforts & limitation of nuclear weapons - Martin - pp. 241, 246

October 22, 1963

Disarmament - specific agreements re - Laniel, Foulkes - p. 538



July 4. 1963

Percentage decrease in defence expenditures & re equipment and personnel costs - CCOS - p. 73'

Ratio of contributions to NATO by countries - expenditures - CCOS, Smith, Matheson, MacLean, McMillan - pp. 60-61, 62, 63, 66-67

July 18, 1963

Defence research - Extramural - CDRB - pp. 211-12, 213

Grants-in-aid for - CDRB - p. 211

Expenditure for - CDRB - p. 211

- expenditures for defence research - CDRB - p. 213

- aid to universities to undertake research - amounts - Deachman, Matheson, CDRB - pp. 221-22, 224-25

- research grants to universities - number & amount - Deachman, CDRB - pp. 225, 226

- research program not cut back by austerity program - amount of budget - Deachman, CDRB - p. 225

July 25, 1963

External Aid versus defence expenditures - Matheson, Martin, Brewin, Deachman - pp. 245-46

October 15, 1963

Expenditures re Navy - Matheson, CNS - pp. 401-02

October 22, 1963

Defence expenditures - Korean War period - personnel proportion - equipment - costs of F36, F104, North Star, Lancaster & Argus - frigate costs - Foulkes - p. 500

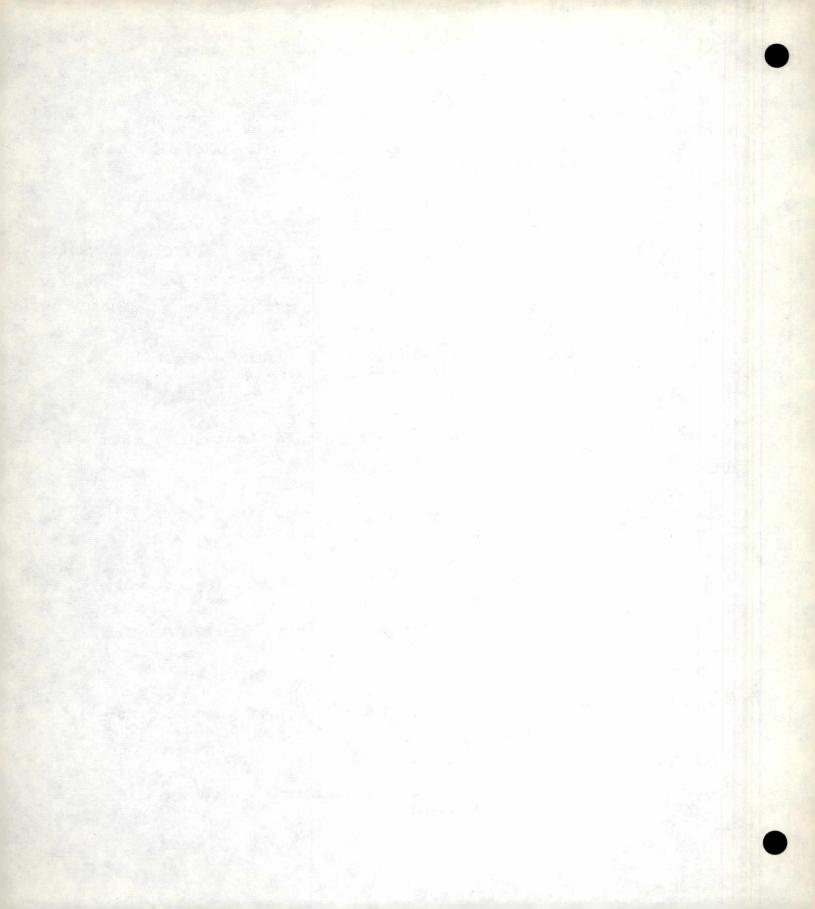
Defence costs for personnel & operations vs equipment appropriation - Foulkes, Brewin - p. 540

October 24, 1963

Distribution of defence exp. among equipment, maintenance & personnel costs - Gellner, p. 563

November 5, 1963

Effecting small economies in overall defence expenditures - comparison with other NATO countries - Lessard, Hellyer - p. 684



FAR FAST

July 25. 1963

Consideration of Chinese threat in view of separation in Communist camp - Hahn, Martin - pp. 251-52

October 10, 1963

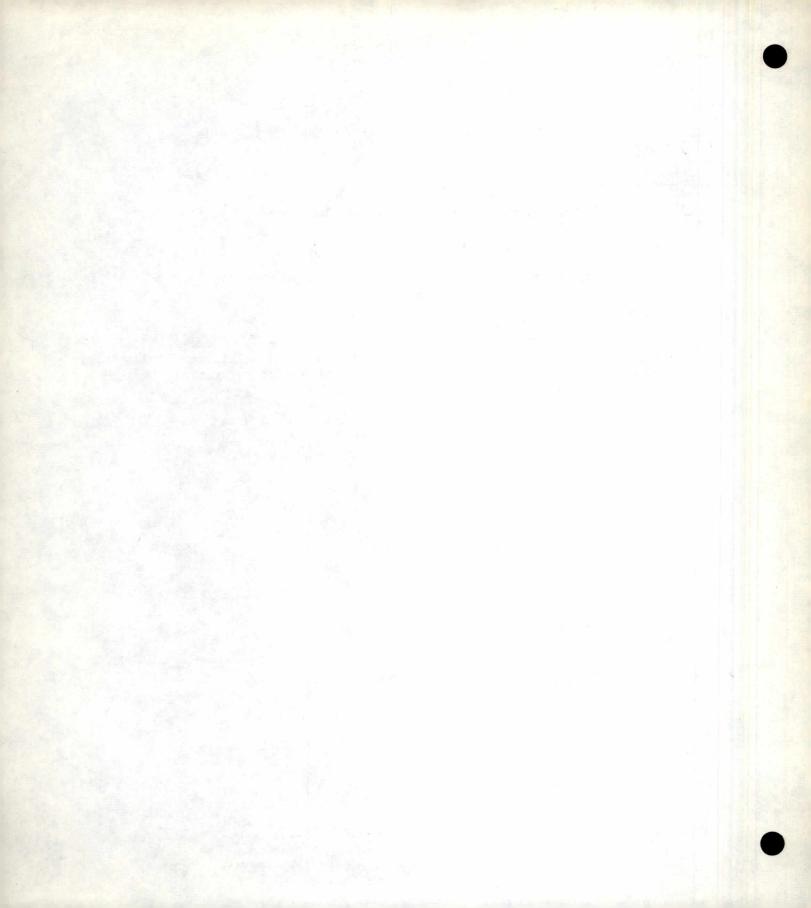
Navy - subs - China, Russia, Egypt, Cuba - Asselin, Plomer - p. 385

October 17, 1963

Chinese threat - nuclear weapons in future - MacLean, Simonds - p. 476

October 22, 1963

Defence of Canada-US region - ICBM & bomber threats to - Nike-Zeus anti-ICBM defence - reduction of Cdn. contribution to - Russian ballistic missile submarine threat to - future Chinese sub threat - Foulkes, Laniel, Lambert - pp. 502-03, 506-07, 538, 541-42.



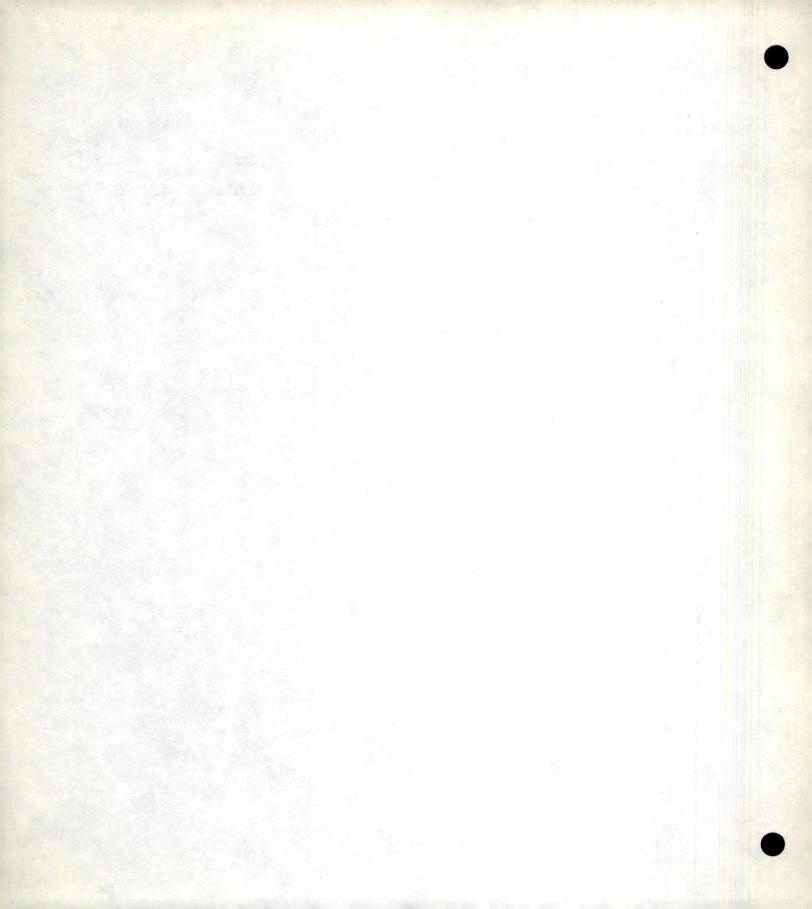
FOOD

July 30, 1963

DDP - food supply of Cdn. NATO forces - Drury - pp. 281-82

Octol . 29. 1963

Survival ops. - tasks re - planning for - utilization of facilities - relation re MO - food program re - Lessard, CGS - pp. 601-02
Food supply to Bde. - McMillan, Winch, CGS - p. 618



GLASSCO PEPORT

June 27, 1963

Consideration of Glassco recommendations - Hellyer - p. 20

July 16, 1963

Management practices - utilization of Glassco Commission suggestion - CAS - p. 184

July 30, 1963

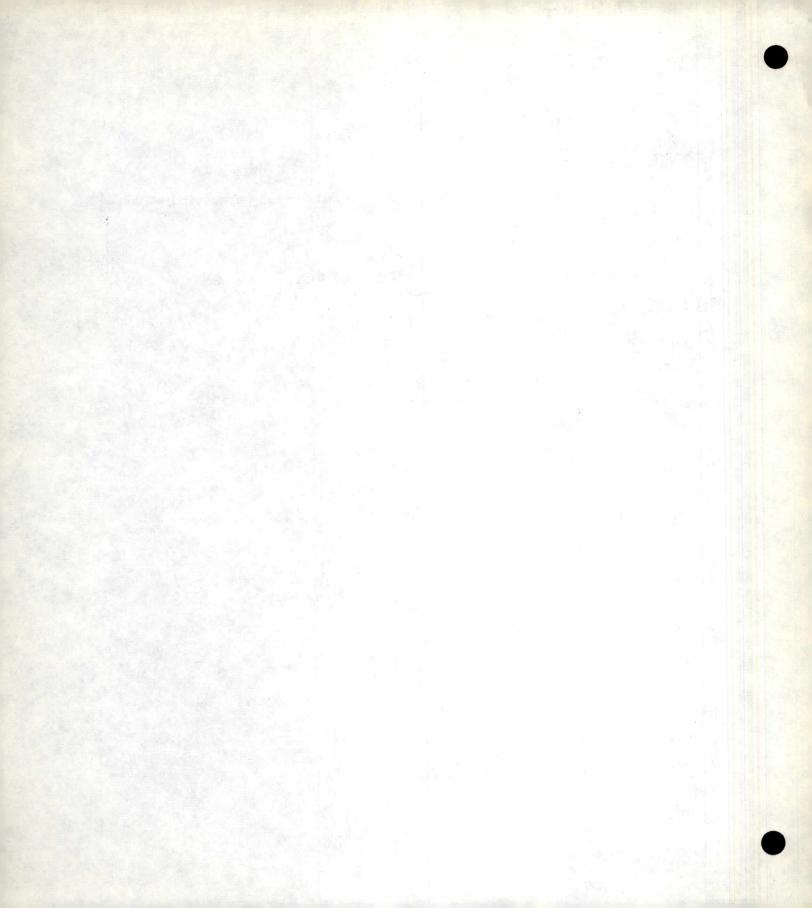
DDP - Glassco recommendations being implemented - Drury - p. 269

October 29, 1963

Studies re Classco Commission recommendations - MacLean, CGS - pp. 620-21

November 5, 1963

Integration of Services - Glassco Commission suggestions re - Hellyer - p. 667



GUIDUD MISSILES

June 27, 1963

SACE centres of NORAD - Hellyer - p. 16

ICBM d: IRBM threat - Hellyer - p. 16

Nike-Zeus - development - Hellyer - p. 16

Cdn. contribution of Bomarc & CF-101 - Hellyer - pp. 17, 18

Bomarc moved north to protect Cdn. Cities - Hellyer - p. 17

Bomarc effective anti-bomber weapon - Hellyer - p. 17

Bomarc development cost - Hellyer - p. 17

Bomarc armed with atomic warhead to be effective & cook bomb - Hellyer - p. 17

Arrangements re nuclear weapons use by CF-101 & Bomarc - Hellyer - p. 18

Non-nuclear warhead for Honest John & Bomarc - Matheson, Hellyer - p. 23

Request for cost of Bomarc program as indicated by US Defense Sec.
Churchill, Hellyer - p. 23

Effectiveness of Bomarc greater with nuclear warhead - McMillan, Hellyer - p. 24

July 2, 1963

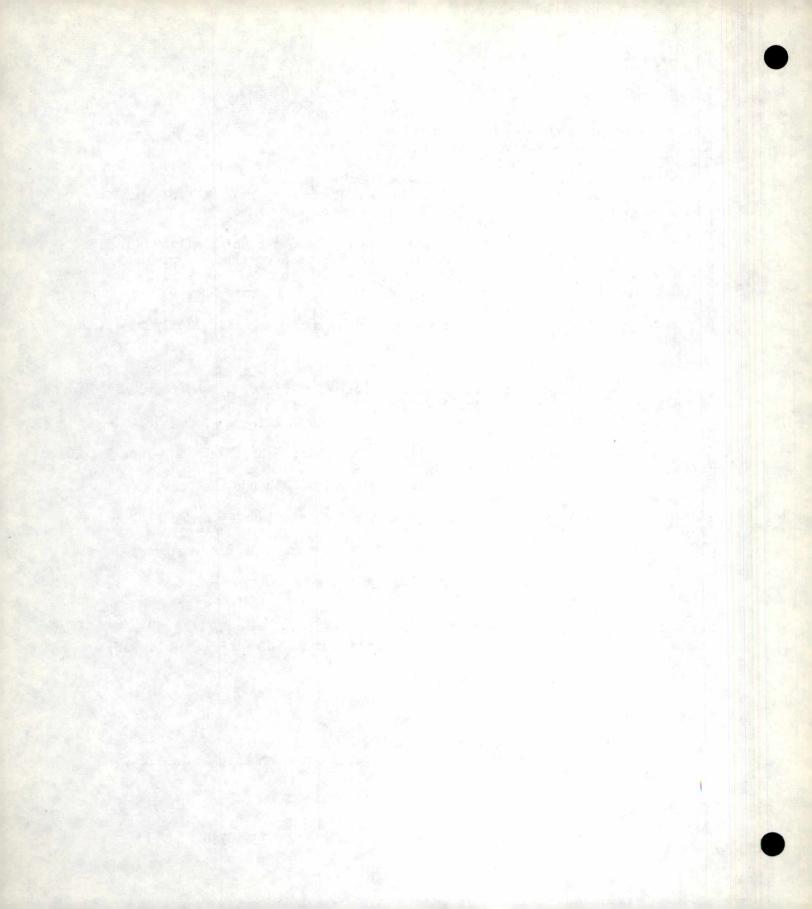
Bomarc height & range effectiveness & location - Dr. Field, Smith, Lloyd, Hellyer, Winch, MacLean - pp. 33-34, 35, 39, 41, 42 Cooking of nuclear warhead by Falcon missile - Churchill, Dr. Field, Smith p. 35, 36, 39 Cooking nuclear warhead by Bomarc - Smith, Dr. Field, Hahn, MacInnis - pp. 39, 40 Evaluation of Bomarc - Lloyd, Hellyer - p. 43 Cdn. contribution to NORAD - CF-101, Comarc, etc. - Matheson, Hellyer, Deachman - pp. 40, 43 US contribution to NORAD - percentage nuclear & conventionally armed F101 & Bomarc, etc. - Lambert, Hellyer, Deachman - pp. 40, 43 Marginal & diminishing value of Bomarc & effectiveness - Brewin, Hellyer, Martineau - pp. 44, 45, 50-51 Bomarc - empenditure for & operating cost justified - Hellyer - p. 45 CF-101 equipped to carry Genie or Falcon - Deachman, Hellyer - p. 47 Bomarc paid for by US - Deachman, Hellyer - p. 47 Detonation & flight control of Bomarc - Lloyd, Hellyer, Field - p. 49 Bomarc ineffective - statement by Gen. Simonds quoting US Generals - Brewin. Hellyer - p. 51 Bomber vs ICBM - Hahn, Hellyer - p. 54

July 9, 1963

Defence against TCBM & sub-launched missiles - use of nuclear a/s sub vs surface ship & maritime patrol a/c - proportions - Lambert, Churchill, Brewin, CNS, Hellyer - pp. 112, 113, 120, 121-122

July 11. 1963

Army - acquisition & testing of SSN & ENTAC - CGS - pp. 137, 138



July 16, 1963

NORAD - Bomarc - nuclear capability - CAS - p. 166
Anti-ICBM Nike Zeus missile defence - problems involved - Temple, Hellyer,
Patterson, CAS - pp. 192, 193
ICBM versus threat from satellite - military role of, etc. - Asselin,
CAS - p. 195
Comparative size of warhead carried by ICBM & bomber - McMillan, CAS - p. 196

July 18. 1963

Defence research - Intramural - basic & applied - defence against guided missiles & bombers - CDRB - p. 211

Research in anti-ICBM defence & survival - co-op with UK - explosives in kiloton range - Lessard, CDRB - pp. 226-27

October 15, 1963

Fleet - anti-aircraft defence for - missiles for - composition of - decisions re - Brewin, CNS - pp. 409, 411-12
Frigate suitability for locating missiles - Lloyd, CNS - p. 415

October 17, 1963

Adoption of strategic nuclear weapons - Winch, Simonds - p. 442

Nuclear threat - initiative with enemy - Bomarc vulnerable - Simonds,

MacLean - pp. 446-47, 474

Bomarc absolete - U.S. Defence Secretary statement - Brewin, Simonds - p. 451

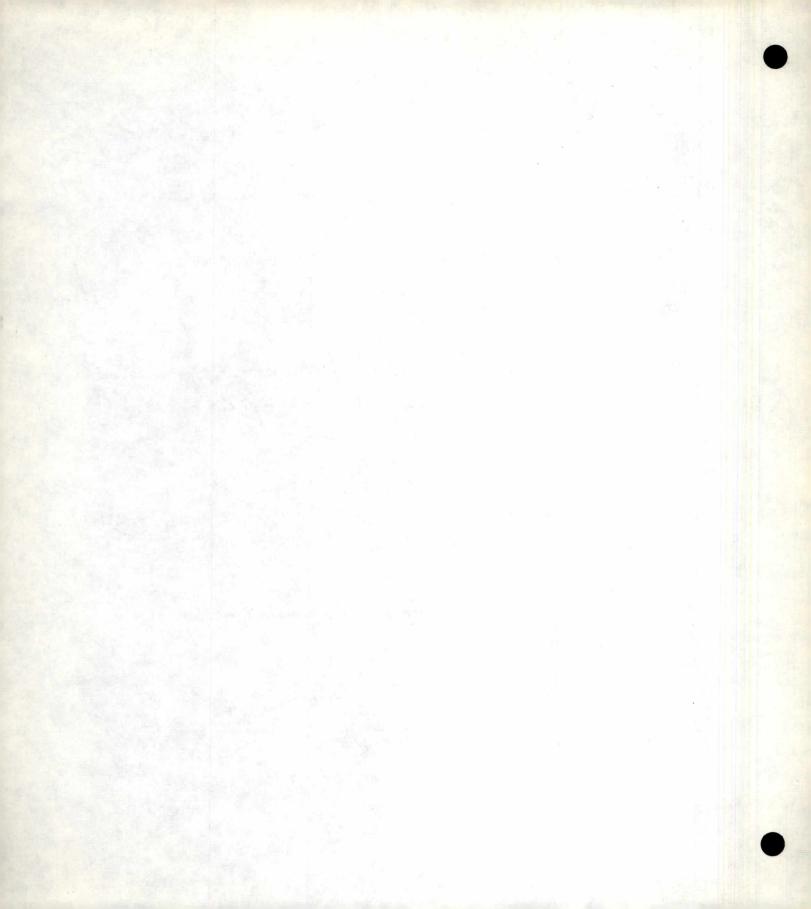
Aircraft close support role - missile role re - Simonds, Churchill, Lambert - pp. 459-60

October 29. 1963

SSII guided missile weapon & medium-range anti-tank weapons - range, etc. - Brewin, CGS - pp. 593-94

October 31, 1963

l Air Div. - use of air-to-surface missiles - Lambert, CAS - pp. 632-35 Missile threat to l Air Div. bases - Churchill, CAS - pp. 643-44 Use of Bomarc against aircraft-launched missile - vulnerability of Bomarc site to missile attack - Smith, CAS - p. 653



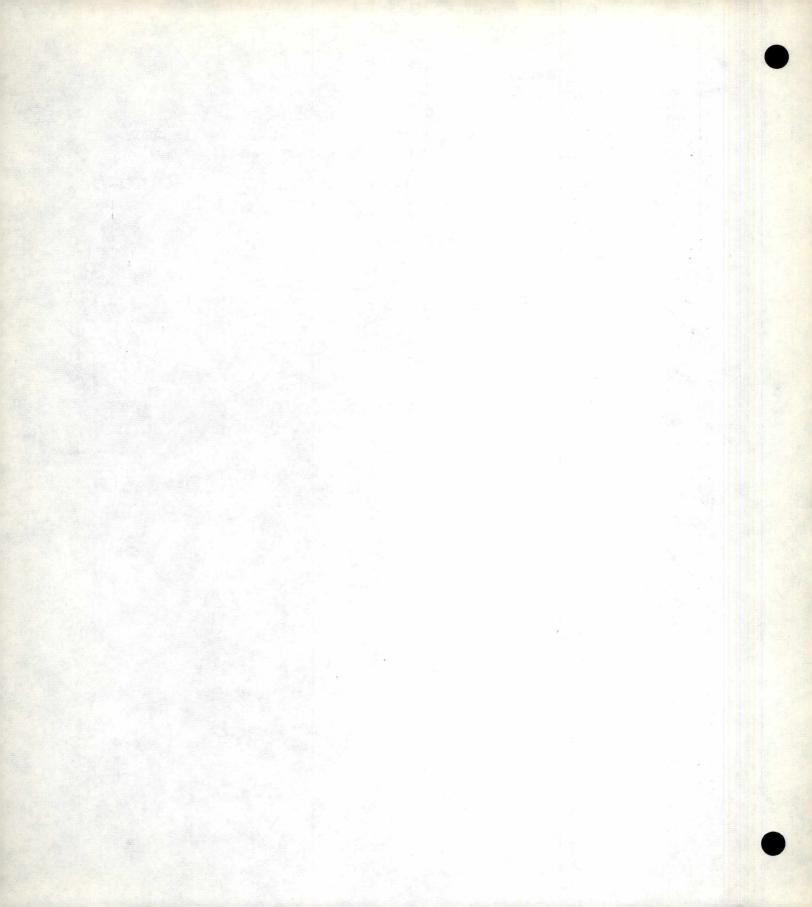
GUIDED MI ILES - (Cont'd)

November 5, 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF101, Honest John, CF104 & Bomarc - storage space for - Hellyer - p. 665

Avail bility of Genie rocket for Voodoo - Hellyer, Churchill - pp. 665, 674-75

Missile arangeent of CF101 - Smith, Hellyer - p. 687



June 27, 1963

Non-nuclear warhead for Honest John & Bomarc - Matheson, Hellyer - p. 23

July 11. 1963

Honest John - CGS - p. 134

October 17, 1963

Use of tactical nuclear weapons by Field Commander - Honest John - Brewin, Simonds - p. 454

October 22, 1963

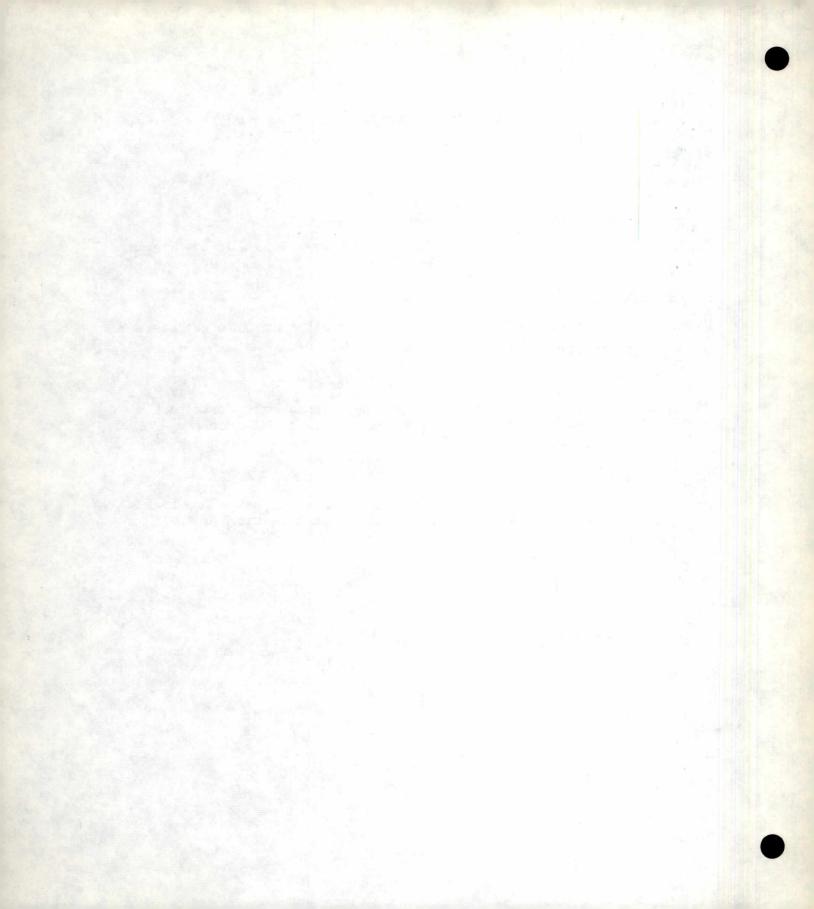
Bde. - armed with Honest John - reason for - if withdrawn into reserve, no need for nuclear weapons - McMillan, Foulkes - p. 528

October 29, 1963

Honest John - authority to use - technical agreements being worked out with US - function of - efficiency of Bde. re - Lessard, CGS, MacLean - pp. 600, 618, 619

November 5, 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF101, Honest John, CF104 & Bomarc, storage space for - Hellyer - p. 665



GUID D MISSILES - ICBM

July 2, 1963

Fallout & Anti-ICBM's - Winch, Dr. Field, McMillan, Hellyer - pp. 32-33, 38

July 76. 1363

Anti-ICBM Nike Zeus missile defence - problems involved - Temple, Hellyer, Patterson, CAS - pp. 192, 193

ICBM versus threat from satellite - military role of, etc. - Asseling, CAS - p. 195

Comparative size of warhead carried by ICBM & bomber - McMillan, CAS - p. 196

October 8, 1963

ICEM vs sub-BM threat - Matheson, CNS, Asselin, Winch - pp. 322, 324, 334 Cuba missile threat - Matheson, CNS - p. 322

October 17, 1963

No defence against ICBM - Simonds, Winch - p. 442

Bomber threat unreal in reference to ICBM attack - Brewin, Simonds - p. 452

Russian rocket development - military value - Smith, Simonds - p. 454

Anti-ICBM missile role for NORAD - Hahn, Simonds - p. 458

ICBM accuracy - Granger, Simonds - p. 462

ICBM threat - enemy advantage - cooking of missiles - doubtful value - McMillan, Simonds - p. 467

ICBM's - US & Russian strengths re - Temple, Simonds - pp. 477-78

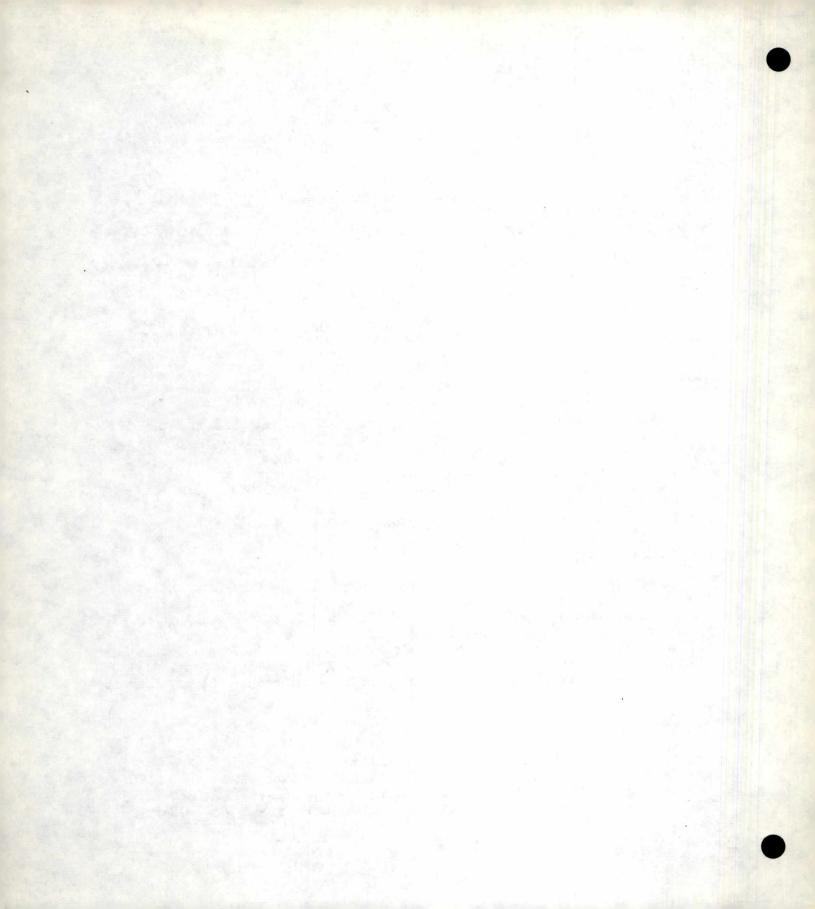
October 22, 1963

Defence of Canada-US region - ICBM & bomber threats to - Nike-Zeus anti-ICBM defence - reduction of Cdn. contribution to - Russian ballistic missile submarine threat to - future Chinese sub threat - Foulkes, Laniel, Lambert - pp. 502-03, 506-07, 538, 541-42

ICBM vs bomber threat - advantage of attack with Russia - defence against - fail safety system & flexibility of bomber - Foulkes, Temple - pp. 519-20
Threat to 1 Air Div. bases by ballistic missiles - Matheson, Foulkes, Lambert - pp. 533, 540-41

October 24, 1963

Nuclear weapons & anti-missile defence - Gellner - pp. 564-65 Russian ICBM & missile sub threat vs US retaliatory power - threat to NATO - deterrent Gellner, Smith, Deachman, Granger - pp. 564-65, 571, 580-82, 584 ICBM accuracy vs bomber carried missile - Smith, Gellner - pp. 571-72



October 31, 1963

Shift from bomber to missile threat - intelligence reports re - Hahn, CAS - p. 628

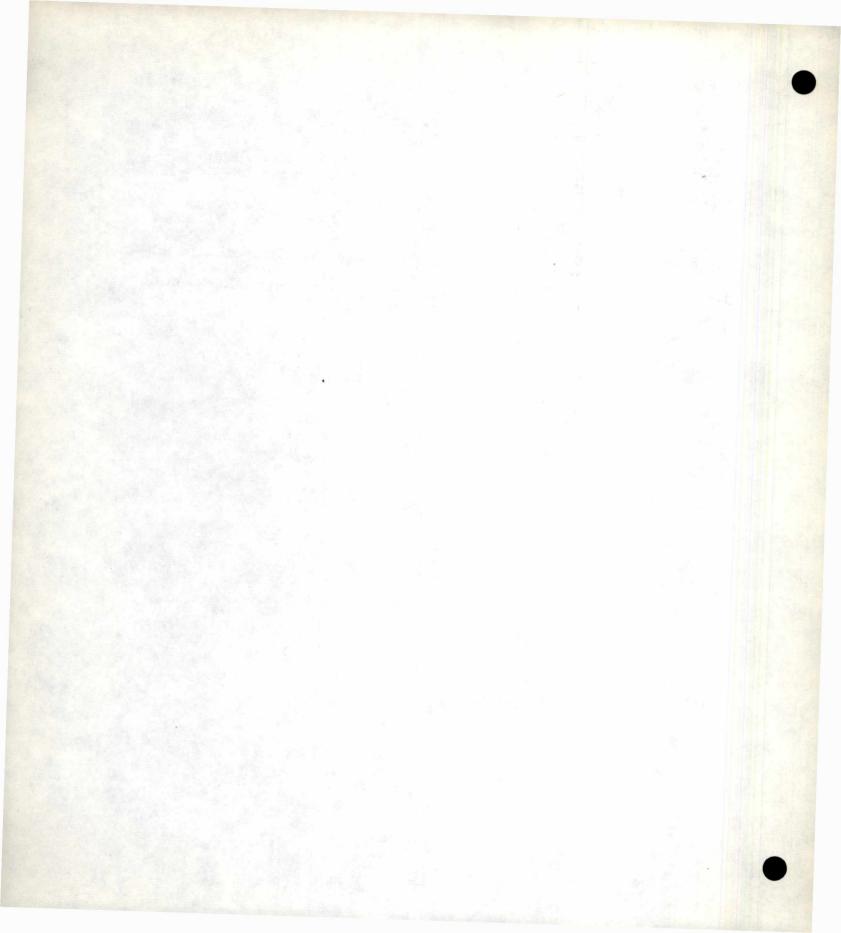
Soviet development of submarine ballistic missiles - CAS - p. 629

Nuclear missile-firing submarine threat - defence against difficult - MacRae, CAS - p. 638

ICBM, ballistic missile submarine & bomber threats - degree of - statement by US def. Sec. re - hardening of sites - accuracy of - defence against - Churchill, CAS, MacInnis, Lambert, Hahn, Granger, Smith - pp. 639-42

Effective defence against Russian surface-launching ballistic missile submarines - CAS - p. 646

Bomber threat & role of Air Force in future - defence against ICBM - CAS, Hahn - pp. 657-58



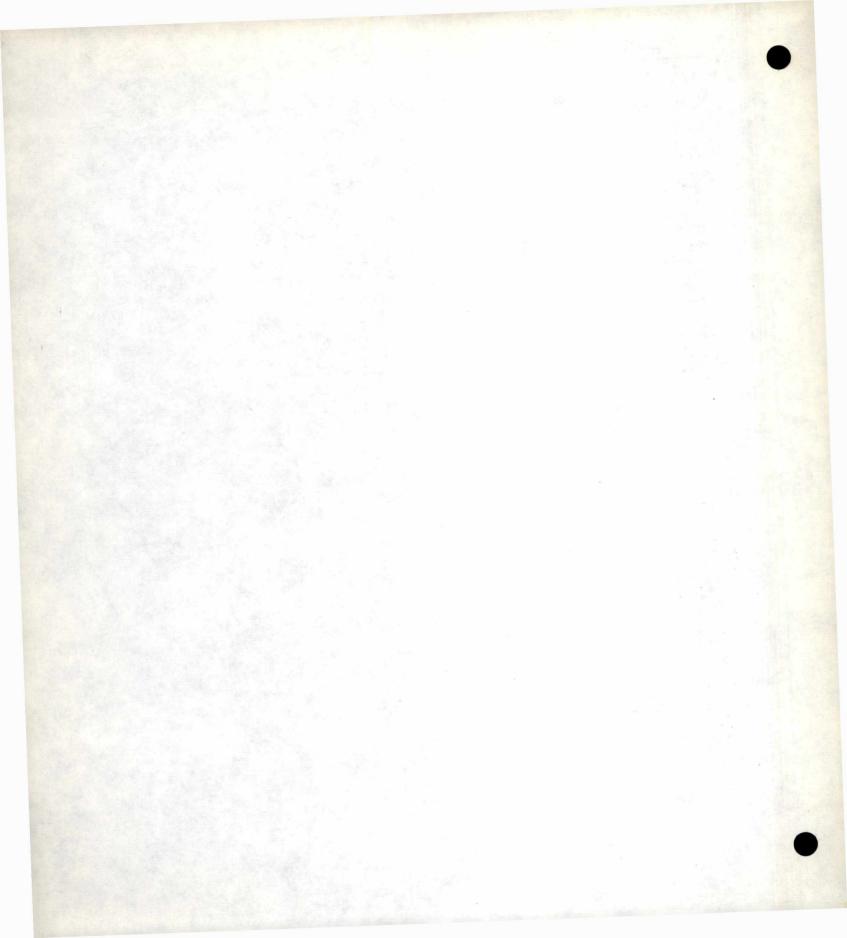
GUIDED MISSILES - SATELLITES

July 76, 1963

NORAD - satellite - detection & tracking - CAS - p. 169
Satellites in operational role - Asselin, CAS - p. 195
ICBM versus threat from satellite - military role of, etc. - Asselin,
CAS - p. 195

July 18, 1963

Expenditures for defence research - Alouette & subsequent satellites - p. 213 Alouette satellite - purpose, launching, etc. - operation of - pp. 214-18



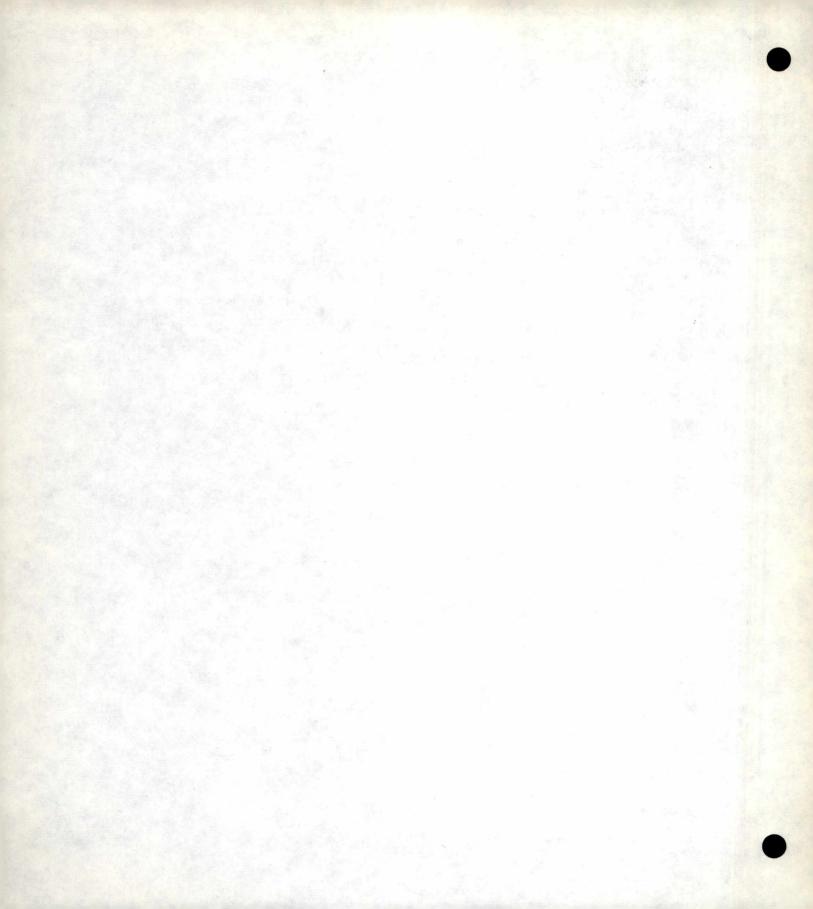
HIGH AYS, Defence

July 11, 1963

NWHS - CCS - pp. 152-54
Commitment re - CGS - p. 152
Cost re - CGS - p. 152
Strengths - CGS - p. 152
Extent of - CGS - p. 152
Can.-U.S. agreement re - CGS - p. 153
Keep open for U.S. military - CGS - p. 154
Reconstruction of - CGS - p. 154
Maintenance - CGS - p. 153, 154

October 29, 1963

Northwest Highway System - transfer to DPW - date of - paving re - consultation with Province & US - portion burned over to B.C. - Deachman, CGS, Hellyer, Patterson, Baldwin - pp. 603-05



July 2, 1963

Bomare ineffective - statement by Gen. Simonds quoting US Generals - Brewin, Hollyer - p. 51

October 10, 1963

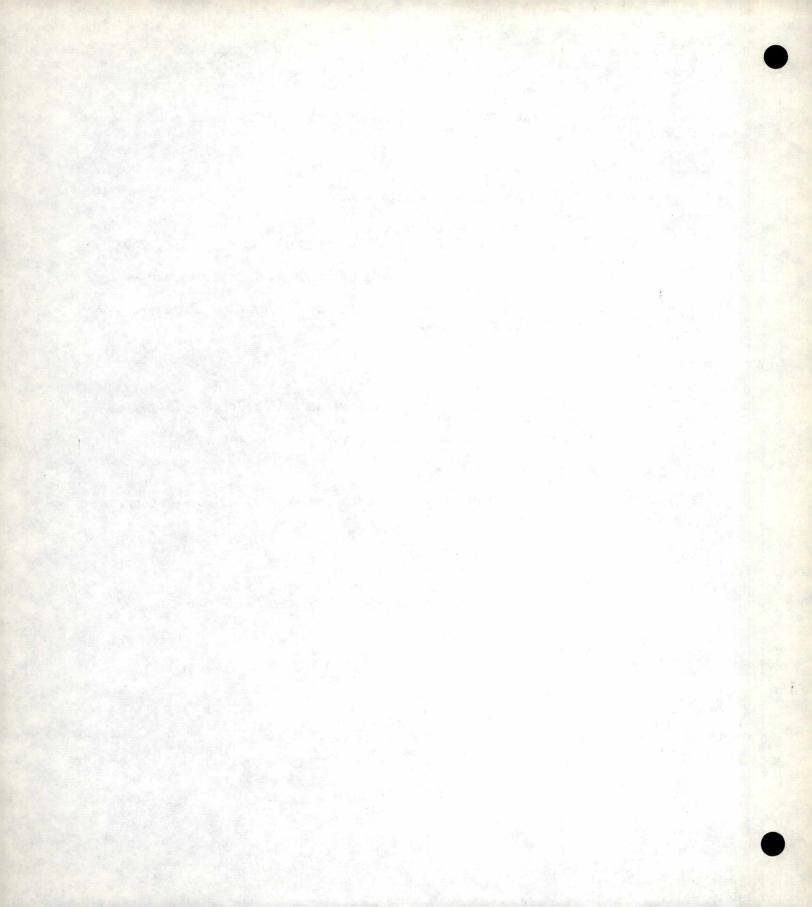
- Navy Mainguy Report summary mutinies Matheson, Plomer, MacRae pp. 351, 381-82
 - Promotions & grievances poor morale comparison with USN & UK Lloyd, Brewin, Plomer, Fairweather, Hahn, MacInnis pp. 354, 363 367-68, 369, 370, 374, 375
 - Low morale due to shortage of housing at Halifax Lloyd, Plomer p. 362
 - Cmdre. Plomer's departure from Navy investigation of Lloyd, Winch, Plomer pp. 372, 375-76

October 15, 1963

- Navy officer grievances Brewin, CNS, MacInnis p. 409
 - CDR Plomer's representations to Min. & subsequent release Lloyd, CNS, MacInnis pp. 417-18
 - Saskatchewan boiler defects Deachman, CNS p. 422

October 17, 1963

CDR Plomer's dismissal from Navy - statement by former Min. of ND - Patterson - p. 438



October 10, 1963

Navy - Personnel Problems & Leadership - Cmdre Plomer - pp. 346-47 Senior officers leaving service - Cmdre Plomer - pp. 345-46 . Morale poor - Cmdre Plomer - pp. 346, 347, 348 Service run by club - Cmdre Plomer - p. 346 Promotion - Cmdre Plomer - pp. 346, 347, 349 Executive officers not qualified to command - Cmdre Plomer - p. 346 Improvement of standards - Cmdre Plomer - p. 346 Lack of integrity at top - Cmdre Plomer - pp. 347, 348 Promotion from ranks impossible - Cmdre Plomer - p. 347 Housing shortage in Halifax - Cmdre Plomer - p. 347 Shortage of qualified personnel - Cmdre Plomer - p. 347 Mutinies result of frustration - Cmdre Plomer - p. 348 Navy personnel use & costs re training - Matheson, Plomer - p. 350 Appointment of Cmdre Plomer - Lloyd, Brewin, Plomer, Winch - pp. 353, 355-56, 361-62 Promotions & grievances - poor morale - comparison with USN & UK - Lloyd, Brewin, Plomer, Fairweather, Hahn, MacInnis - pp. 354, 363, 367-68, 369, 370, 374, 375 Navy - shortage of technical staff - Fairweather, Winch, Plomer, Patterson pp. 357, 364, 365-66

October 15, 1963

Manpower strengths and complement of fleet - CNS - p. 398
RCN personnel structure committee - function & composition - subsequent reorganization of personnel structure - CNS - p. 398
Promotions - effect re attendance at defence colleges - selection - MacLean,
CNS, MacInnis - pp. 402, 403-04
Retirement of officers - ages, resignations - MacLean, CNS - pp. 402-03
Navy - morale of personnel - McMillan, CNS - pp. 418-19
Navy - strengths - officers & men - MacRae, CNS - pp. 413-14

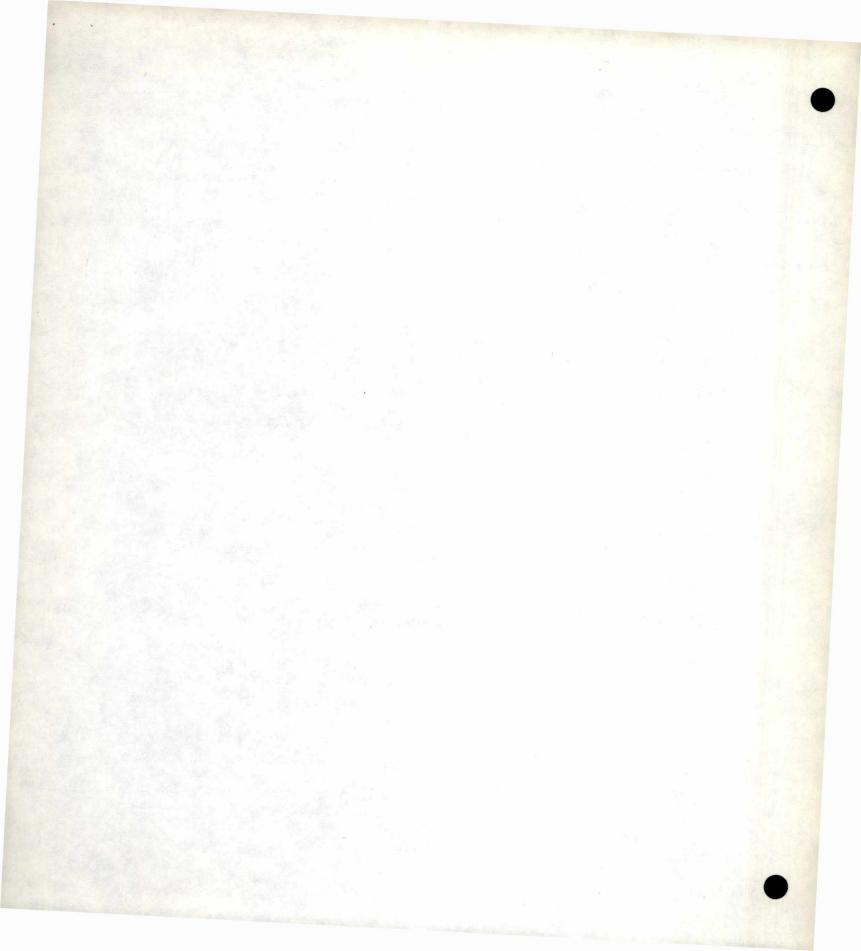
October 17, 1963

CDR Plomer's dismissal from Navy - statement by former Min. of ND - Patterson - p. 438

October 22, 1963

Growth of organization when function redundant - Korean Bde. surplus - Air Force manpower surplus when NATO air training completed - reduction of Air Division, automation of Sage System - surplus manpower - adoption of stringent manpower policy - interservice movement of personnel - Foulkes - pp. 500-501

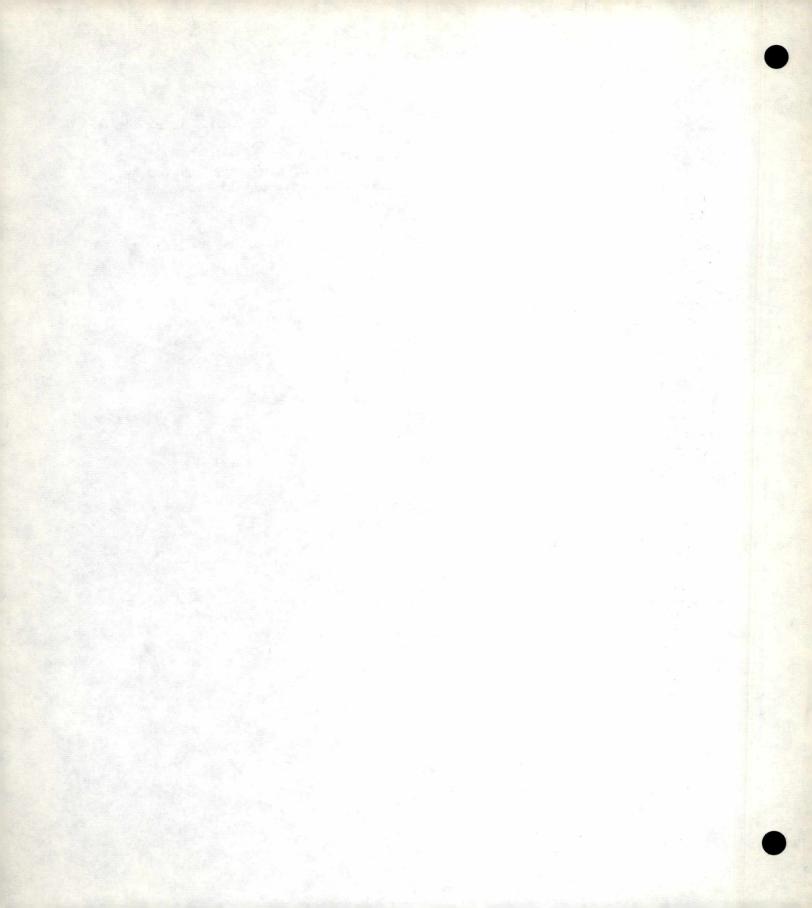
Withdrawal of Cdn. troops abroad - Foulkes - p. 507



Oct 1 29, 1963

Manpower required in support of 3 infantry battalions - wastate & attrition - ratio, etc. - Temple, CGS, McMillan, Smith - pp. 595-96

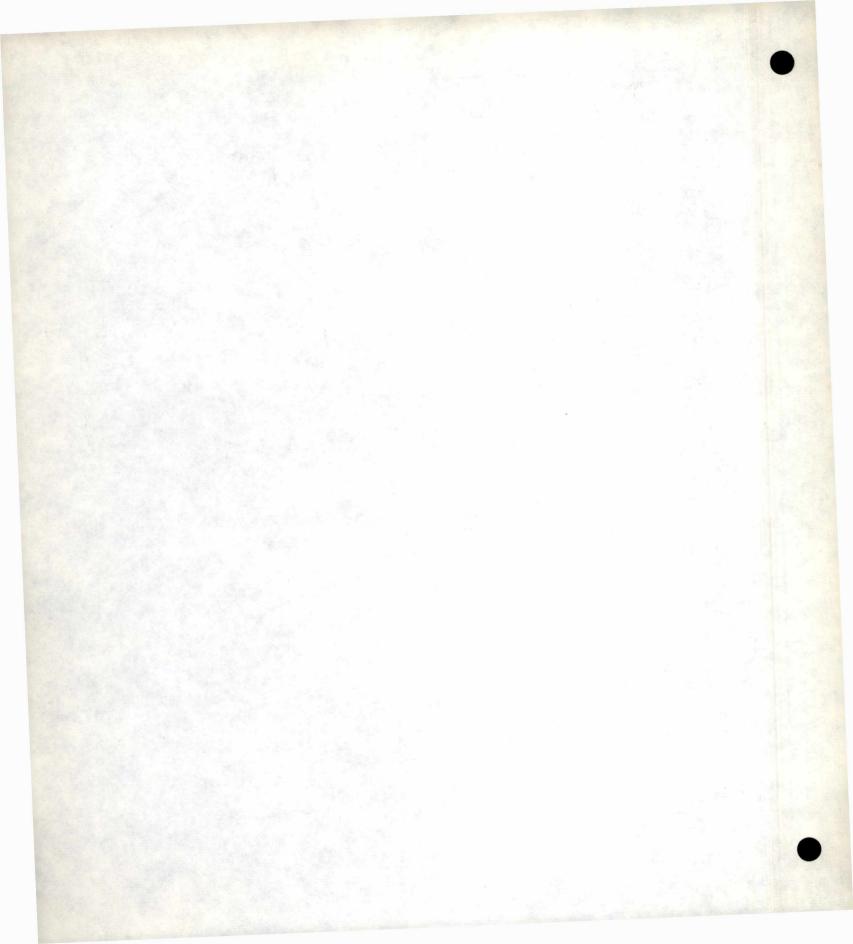
Reduction in functions without reduction in manpower not case - disbandment of Bde. after Korea - top-heavy set up - review of Army organization by Gen. Allard - cut back in HQ size - Winch, CGS - pp. 615-16



MANPOWER, CO PULSORY MILITARY TRAINING

October 17, 1963

Compulsory military training & voluntary system - French-Canadian attitude - length of service - not applicable to senior NCO's - in Militia - MacRae, Simonda - pp. 471-73



MANPOUER, Recruiting

October 10, 1963

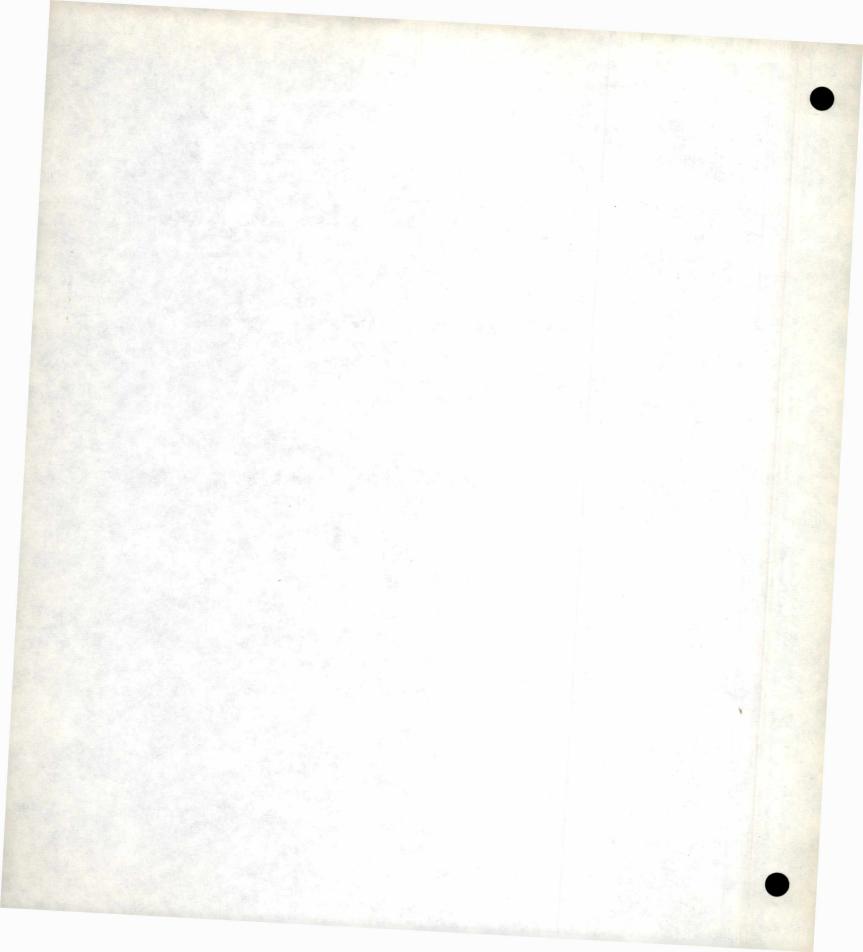
Navy - Cdr. Services Colleges - value - officer recruitment - Matheson,
Planer - p. 380

October 17, 1963

Compulsory military training & voluntary system - French-Canadian attitude - length of service - not applicable to senior NCO's - in Militia - MacRae, Simonds - pp. 471-73

October 29, 1963

Monthly recruiting average - offsets wastage, etc. - McMillan, CGS - p. 594



MAN POUR - Discogths

July 16, 1963

NORAD - strength of - CAS - p. 164
Personel strength in installations, staff colleges, etc. - MacLean, CAS - p. 186

October 17, 1963

Reduction of armed forces - Lessard, Simonds - p. 450

October 22, 1963

Reduction of strengths of forces - MacRae, Foulkes - pp. 508-09

October 29, 1963

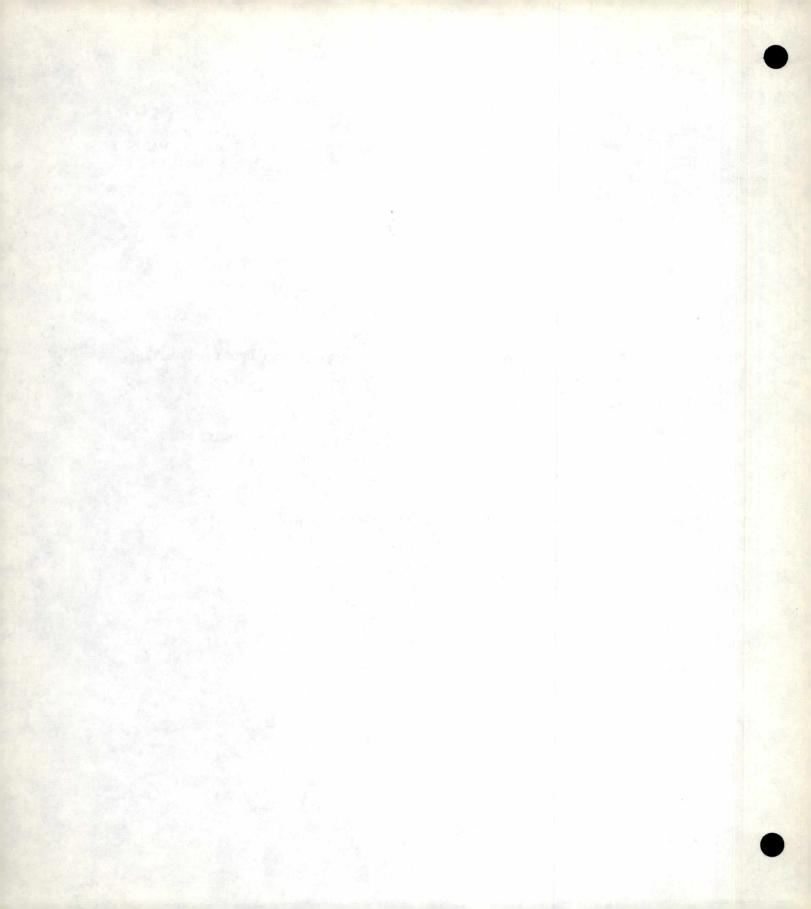
Strength of Army Regular & Militia, cadets & civilian employees - McMillan, CGS - p. 594

October 31, 1963

Strength of I Air Div. & 4th Bde. - number of dependents - MacRae, CAS - pp. 633-39

November 5, 1963

Civilian & military strengths at Army HQ - CGS - p. 690



October 8, 1963

Maritime patrol craft - function - RCAF abandonment of a sqdn. - anti-sub capability - Smith, CNS, Hellyer - pp. 321-22

Sub location by Argus, Tracker & helicopters - Tracker being brought up-to-date - Hahn, C.S - pp. 328-29

Co-ordination RCAF-Navy anti-sub forces & division of responsibility - MacLean, CNS - pp. 332-33

October 31, 1963

Anti-submarine a/c - Argus, Neptune - number, cost - CAS, Lessard, Hellyer - p. 629

Anti-submarine surveillance - use of sonobuoys - range of detection - Lessard, CAS, McMillan, Laniel - pp. 629, 630

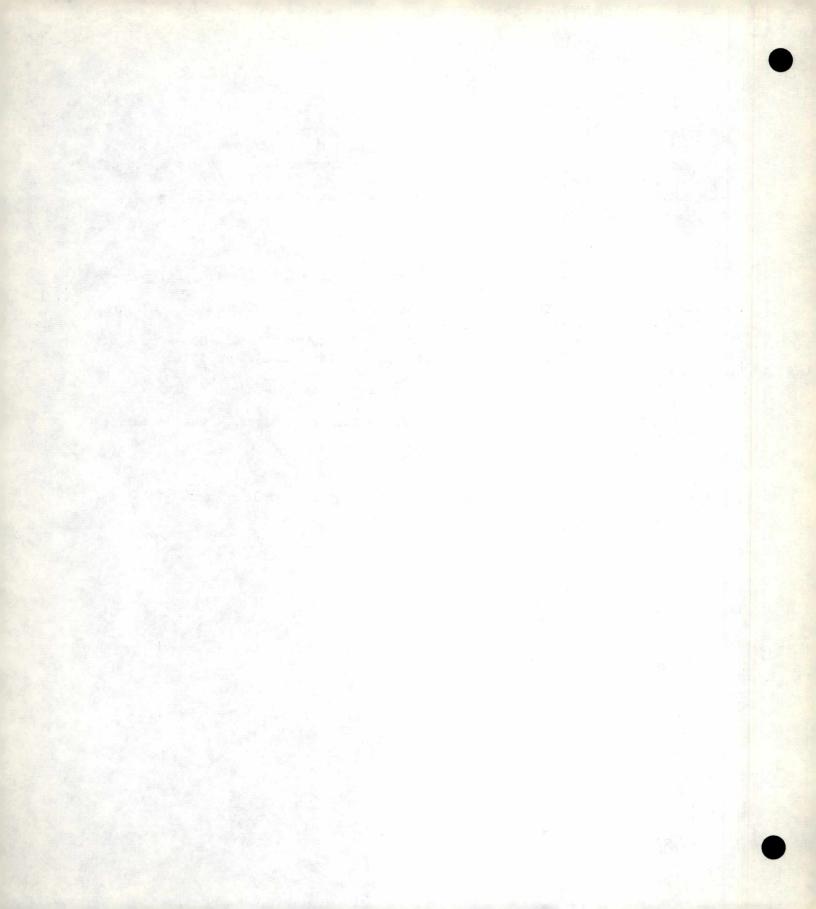
Argus, Neptune & Sonobuoys - costs - number of sonobuoys used - CAS - p. 646 Effective defence against Russian surface-launching ballistic missile submarines - CAS - p. 646

Recce ability of Maritime Air Command & search & rescue - MacLean, CAS - pp. 646-47

Maritime Air Command commitment to SACLANT - number of aircraft re - MacLean, CAS - pp. 660-61

November 5, 1963

Future research re anti-submarine capability - greater role by aircraft - Lessard, Hellyer, Smith - pp. 684, 686, 687



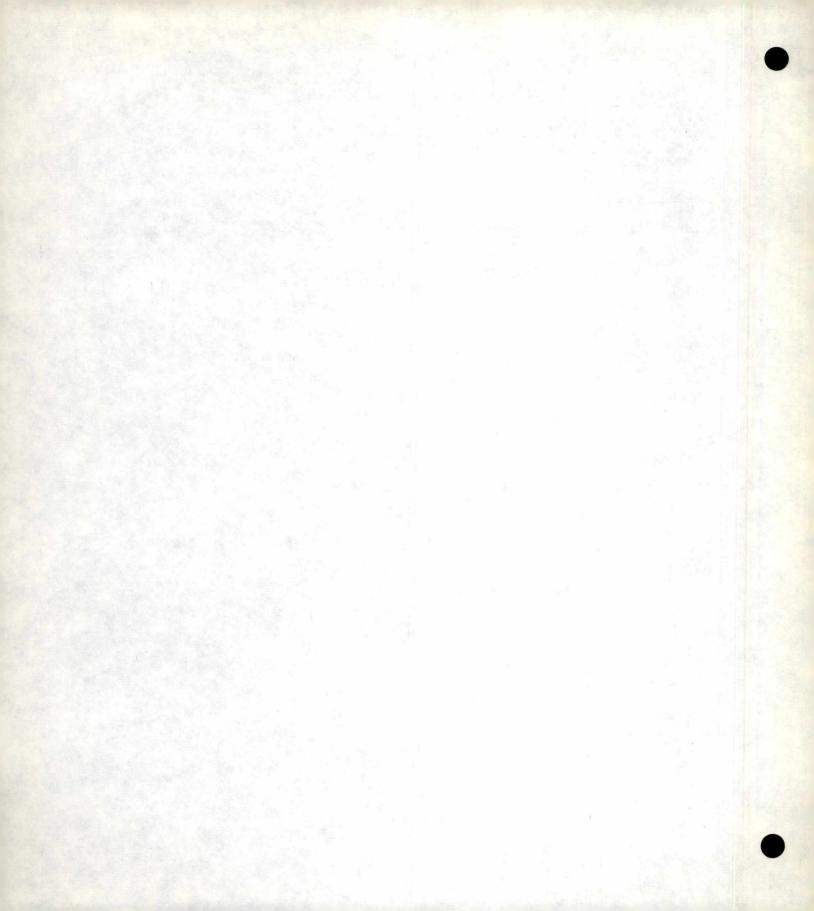
MARTITO QUARTERS

October 10, 1963

Housing shortage in Halifax - Cmdre Plomer - p. 347
Navy - low morale due to shortage of housing at Halifax - Lloyd, Plomer - p. 362

October 29. 1963

Housing accommodation - married quarters - CGS - p. 596



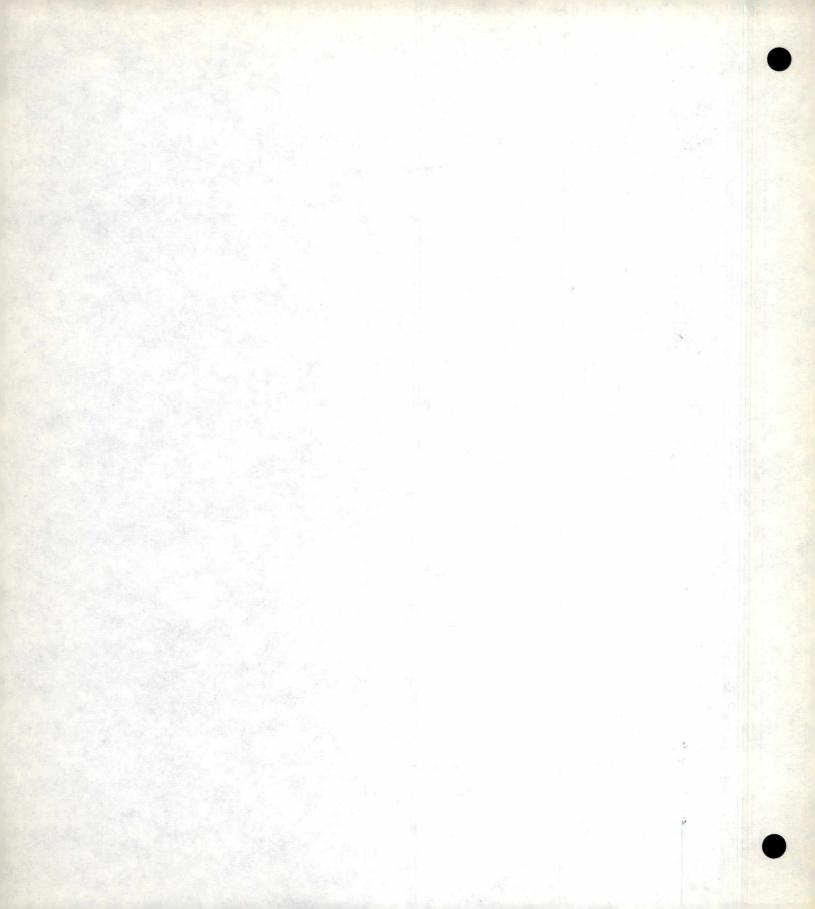
MEDICAL SERVICES

October 22, 1963

Medical services integration - McMillan, Foulkes - pp. 527-28

October 29, 1963

Unification of chaplain & medical services - wiped out duplication - additional book work - integration re hospitals - Winch, CGS, McMillan - pp. 616, 617, 618 Integration of Chiefs of Staff, medical services & chaplain services resulted in increase of higher ranks - Gross, CGS - p. 618



MOVEMENTS TRANSFERS

July 11. 1963

Army - Division re-inforcements - movement to Europe - CGS - pp. 135, 136

October 10, 1963

Navy - convoy transportation - atomic war vs air transport - Asselin, Plomer, Smith - pp. 384-85, 386

October 15, 1963

GP frigates - troop transport - helicopters for - anti-submarine capability - operation with carrier force - troop landing capacity - Granger, CNS, Matheson, Deachman, Brewin - pp. 422-23, 423-24, 425-26, 431

Merchant troop carriers - fitted with helicopters - Smith, CNS, MacInnis - p. 428

October 17. 1963

Transportation adequacy - Lessard, Simonds - p. 450

Forces in Europe - shorter rotation periods - dependents removal - Smith,
Simonds - p. 456

Army mobility - use of fixed wing a/c re - need for armoured personnel carrier Churchill, Simonds - pp. 460-62

Mobile force - composition - modeled after US Marine Corps - armament re air transport of - Temple, Simonds - p. 477

Submarine cargo transport - no future for surface convoys - Granger, Simonds p. 463

October 22, 1963

Dependents - movement from Europe - costs - Foulkes - p. 517

Air portability of troops & use of Bobcat - parachute element - Churchill,

Foulkes - pp. 529-30

Mobility of infantry & use of armoured personnel carriers - Bobcat - ruling

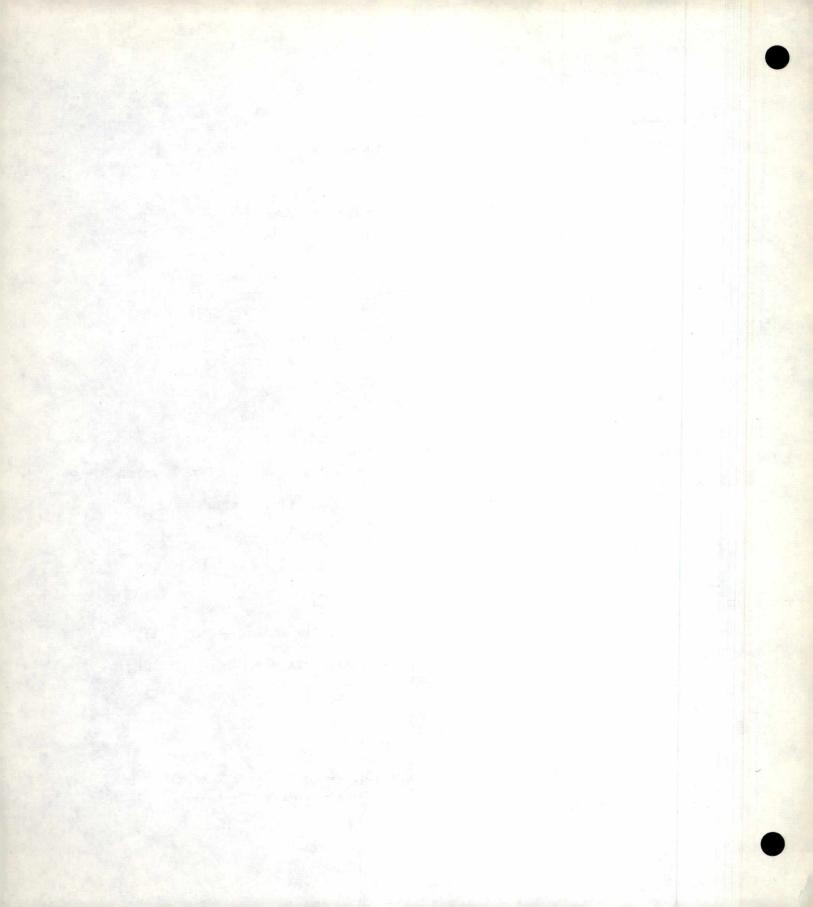
out heavy armour - Churchill, Foulkes - p. 530

Supply of forces by sea not vizualized - NATO shipping board - allocation

by - Smith, Foulkes - p. 536

October 24, 1963

Air space recce & monitoring submarine movements - need of a/c & helicopters & highly mobile ground force - Gellner, Groos, Smith, Churchill - pp. 559-60, 566, 568-69, 572, 586



MOVEMENTS AND TRANSFERS (Cont'd)

October 29, 1063

Airlifting of mobile force with recce & artillery equipment - Hahn, CGS - p. 592

Cariboo lifting capacity - Smith, CGS - p. 592

Brigades in Canada for NATO - shipment to NATO - time - utilization of shipping - development of loading devices re - Brewin, CGS - pp. 592-93

Reinforcements for 4th Bde - Brewin, CGS, McMillan - pp. 593, 594

Rotation of Bde. personnel - limitation to one year - despatch of single units without dependents - Winch, CGS - p. 596

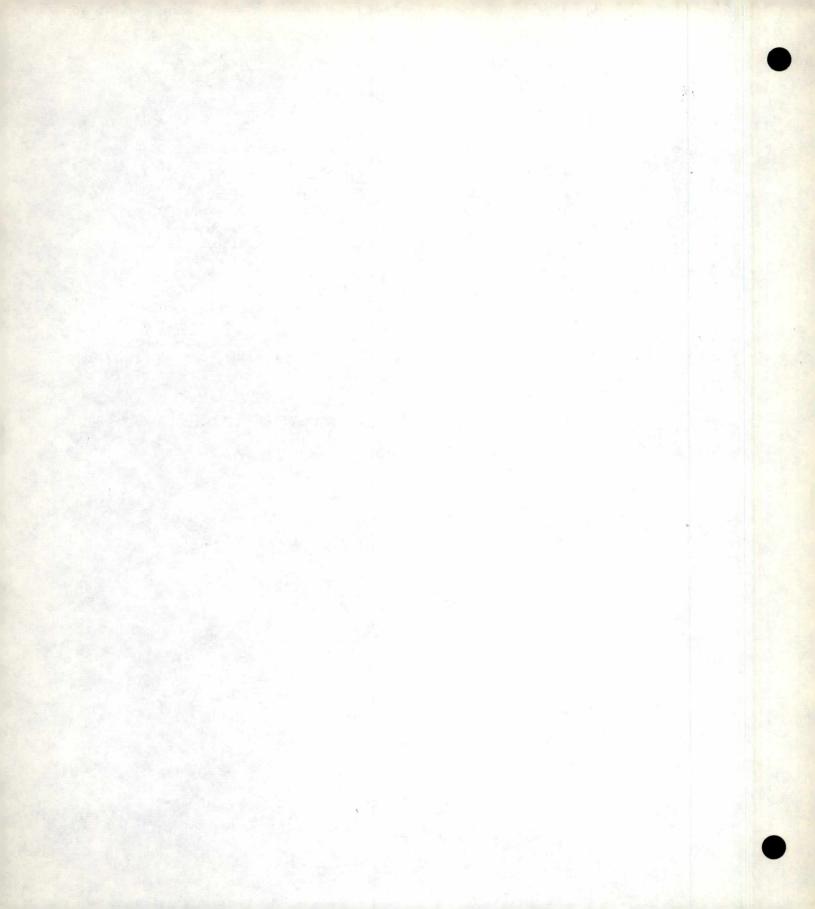
Evacuation of dependents in emergency - number of - no policy re - Winch, CGS, Hellyer, McMillan, Lambert - pp. 596-97-98

Lack of air transport limiting factor re evacuation of dependents - CGS, Smith - pp. 599-600

Mobility of Army - ship transport to disappear with heavy lift a/c - co-op with RCAF - efficient if done on tri-service set-up - Winch, CGS - pp. 614-15

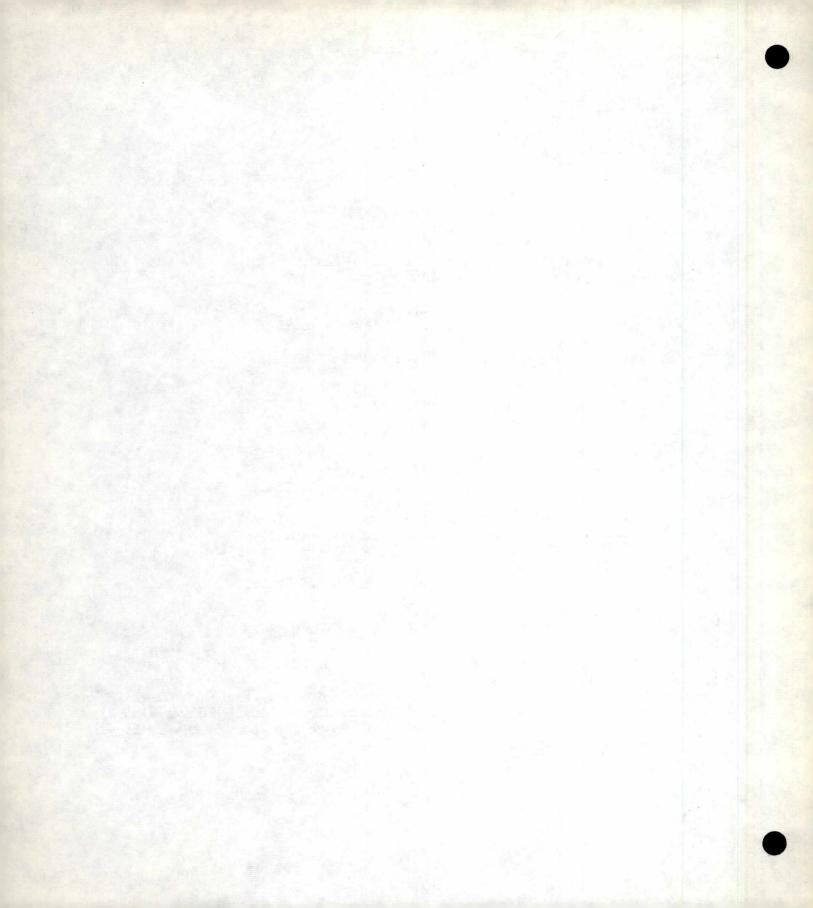
October 31, 1963

Movement of Bde. from North America to Europe - suitability of Hercules & Yukon - Temple, CAS - pp. 627-28
Utilization of civilian air carriers - Smith, CAS - pp. 652-53



June 27. 1963

```
Purpose & formation - Hellyer - p. 12, 13
 Forces of - Hellyer, p. 12, 13
SAC backup & polaris missiles - Hellyer - pp. 12-13
 Cdn. provision of bases, communications & overflight privileges - Hellyer -
    p. 13
 "Measured response" doctrine - Hellyer - p. 13
 Cdn. commitments to - Hellyer - p. 13
Maritime forces of - Hellyer - p. 13
 SACLART - duties of and forces earmarked for - Hellyer - p. 13
        - Cdn. contribution to - Hellyer - pp. 13-14
 MAVY
Destroyer escorts - sonar - helicopters for - Hellyer - pp. 13-14
Anti-sub warfere - offence vs defence - Hellyer - p. 14
Hydrofoil craft - Hellyer - p. 14
Maritime a/c - Neptune - Argus - Hellyer - p. 14
ARMY
Brigade - Hellyer - p. 14
Balance of Division in event of hostilities - Hellyer - p. 14
Review of contribution - Hellyer - p. 14
AIR FORCE
1 Air Div. - role change - drop of bombs on targets - Hellyer - pp. 14, 15
           - reduction of sqdns - Hellyer - p. 14
           - atomic devices - use by - Hellyer - pp. 14-15
Nuclear Policy - adoption of - Hellyer - pp. 14-15, 16
           - Cdn. commitments - Hellyer - pp. 14, 15, 16
           - Inter-allied nuclear force - Hellyer - p. 15
           - Tactical weapons - need & use - Hellyer - pp. 15-16
           - Deterrence - p. 16
Conventional forces - need & increase - statement of US Def. Min. - Hellyer -
    pp. 15, 16
Defence of Europe - Hellyer - p. 15
Honest John - use of - not member of nuclear club - Hellyer - p. 15
Defensive alliance - Hellyer - p. 16
US Gen. Lemnitzer's visit to Canada - Hellyer - p. 20
Review of NATO strategy - Hellyer - p. 20
Comparative contributions of NATO countries - Laniel, Hellyer - pp. 21-22
Releasing of info on defence of other NATO countries - Lloyd, Hellyer - p. 23
NATO nations having bilateral agreements with US re use of nuclear weapons -
   Baldwin, Hellyer - p. 24
Strike role defined - Lambert, Hellyer - p. 24
```



July 4, 1963

U.S. sqdns. withdrawn from France - CCOS, Martineau - p. 67 Ratio of contributions to NATO by countries - expenditures - CCOS, Smith, Matheson, McMillan, MacLean - pp. 60-61, 62, 63, 65, 66-67 Function, formation of, planning groups, commands of - CCOS - pp. 61-62 North American defence & NATO - CCOS - pp. 61-62 Cdn. contribution to - CCOS, Matheson - p. 63 Command of forces in emergency - CCOS, Laniel - p. 83 Muclear sqdns. in France - CCOS, MacLean - p. 65 Selection of role under - CCOS, Brewin - p. 67 Conventional & nuclear arms - balance, review of - flexible response provocation - CCOS, Brewin, Winch, Hellyer, MacLean, MacInnis pp. 67, 68, 70-72, 74, 79, 80-81 Tactical nuclear weapons .- control, use - stockpiling - decision re acquisition -CCOS, Winch, Hellyer, Brewin, Lambert, Deachman - pp. 68, 69, 72, 78, 79 Conceived as conventional force - strength in Divisions - CCOS, Deachman pp. 78-79, 80 Fire power - increase by nuclear weapons - CCOS, Deachman, Brewin - p. 79

July 9, 1963

Statement by US Assist. Def. Sec. re comparative Soviet-NATO conventional forces strength - Brewin - p. 123

July 11. 1963

Force goals - CGS - p. 133 SHAPE request mechanization of & CIB - CGS - p. 134 Army - NATO concept re European war - CGS - p. 137

July 16, 1963

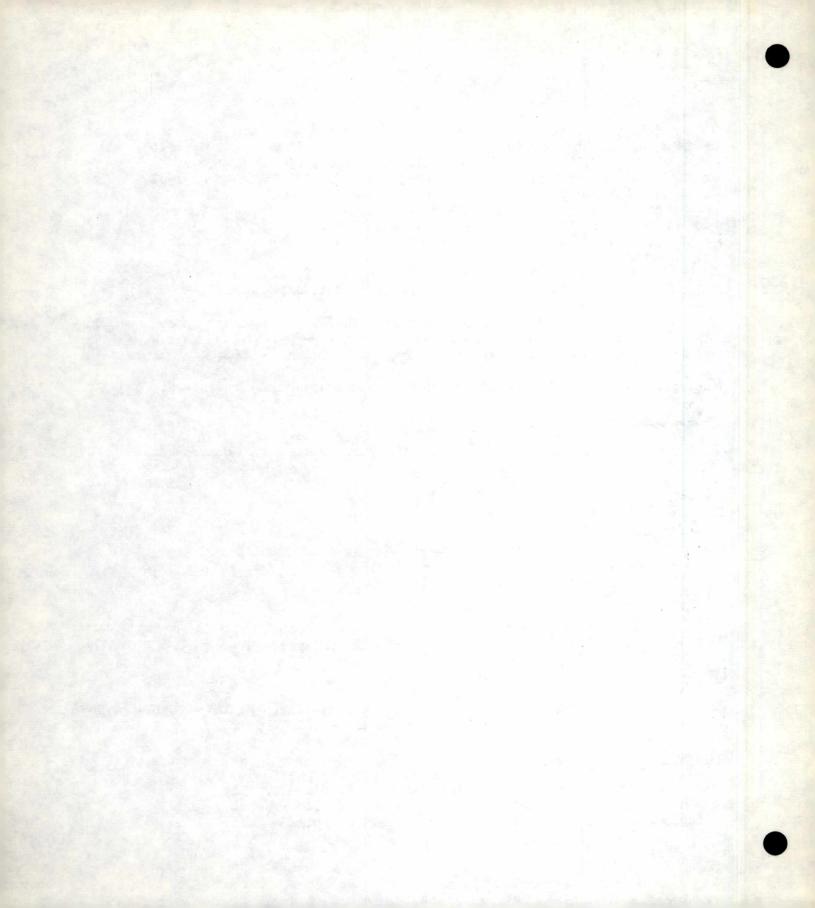
Maritime Air Command - assignment to SACLANT - CAS - pp. 169, 171 Deficiency in NATO tactical resources - Brewin, Hellyer - CAS - p. 186

July 18, 1963

DRB scientists at ADC, NORAD, SHAPE, SACLANT, 1 Air Div. & 4 CIB - CDRB - p. 207
DRB - co-op with NATO - NATO fellowship program - CDRB - p. 214

July 25, 1963

Deterrence being accepted by nuclear powers - Martin - p. 232 Organization & operation of NATO - Cdn. participation - Martin - p. 236 NATO Council study of nuclear problems - Martin - p. 236



July 25, 1963

Ottawa NATO mtg. - decision re review of defence - Martin - p. 236
NATO Defence College - formation - Martin - p. 240
Limited flexible response to aggression - Gross, Martin - pp. 242-43
France's nuclear force & NATO - Gross, Martin - p. 243
France's position re test ban conference - Lessard, Martin - p. 244
Future & present commitments re nuclear role & NATO nuclear role - Brewin,
MacLean, Martin - pp. 247-49
Re-negotiation & review of nuclear role - Patterson, Lloyd, Martin pp. 250-51

October 10, 1963

Frigates - function & capability - costs - comparison to US & UK & NATO forces & Mackenzie Class vessel - speed - troop accommodation - purpose - helicopters for - Asselin, Matheson, Plomer, Smith, Churchill, Lloyd, Granger, Deachman - pp. 250-51-52, 359-60, 361, 365, 376-79, 380, 382-83, 384, 385-86-87.

Navy - comparison of Cdn. to US & NATO ship performance - Plomer, Churchill - p. 383

October 17, 1963

Defence of Europe by conventional forces - Simonds, Gross - p. 446

Bde. in Europe - decreasing morale value - Smith, Seimonds - pp. 455-56

Integration in NATO - Smith, Simonds - p. 479

Escalation into a nuclear war - nuclear weapons no place in defence role (NATO)
Hahn, Simonds - p. 458

Europe can't be defended by nuclear arms - defence by conventional means
potential power of Russia - defence of Europe necessity for defence of

North America - McMillan, Simonds - pp. 466-67

October 22, 1963

NATO - future of - expiration of Treaty - political problems involved withdrawal of troops from - Foulkes - p. 502

NATO - assumption of own territorial defence re close tactical nuclear
support, etc. - Foulkes - p. 505-06

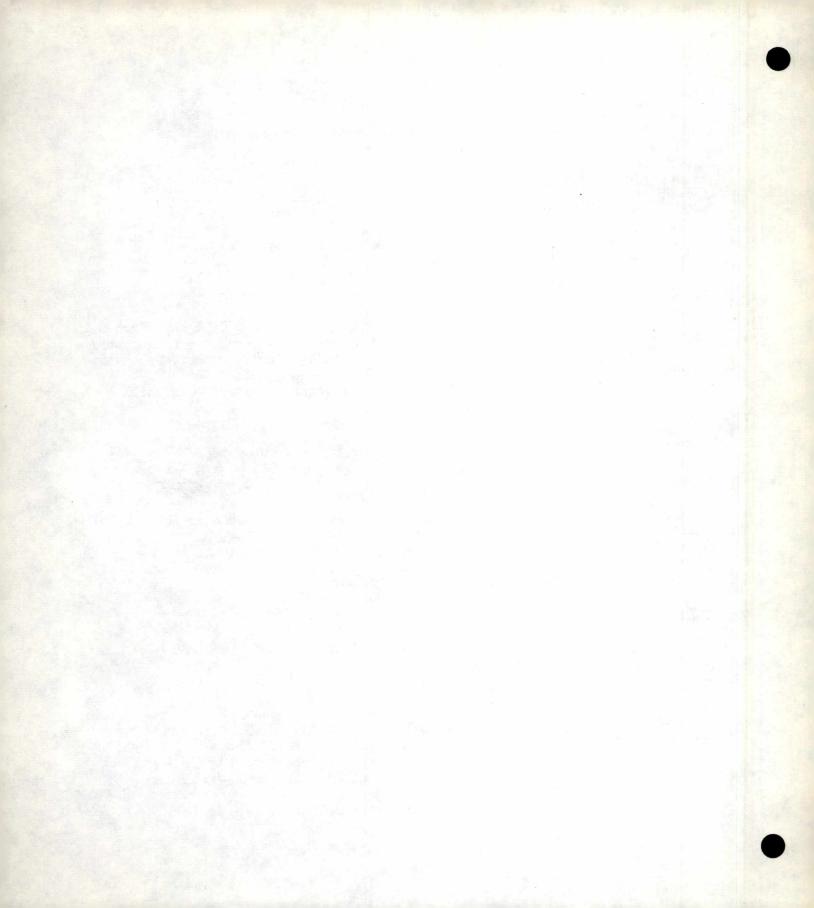
Control over nuclear arms in Europe - US position re - Lessard, Foulkes - p. 516

Revision of NATO Charter - McInnis, Foulkes, Lessard - pp. 516, 517

Withdrawing of Bde. - effect on NATO countries - Foulkes, Groos - pp. 521-22

UN truce & peace-keeping activities - costs re - reimbursement by UN - not
necessary to withdraw from NATO to carry out UN activities - Matheson,
Foulkes - pp. 532-33

Trading of facilities with Germany if Bde. placed in reserve - Laniel,
Foulkes - p. 537



October 24, 1963

Defence policy objectives - military doctrine - nuclear policy & commitments - deterrents, etc. - re NATO - Gellner, Lambert, Asselin, McMillan, Temple, Gross, Churchill, Patterson, Deachman, MacRae - pp. 552-60, 564, 568-71, 573-77-76, 580, 584, 586

NATO use of nuclear weapons - Gellner, Asselin - pp. 557-58 Forward strategy of NATO not useful - Gellner - p. 562

Canada should not participate in multi-lateral nuclear force - cost of - Gollner, Baldwin, Patterson - pp. 563-64, 575

Russian ICBM & missile sub threat vs US retaliatory power - threat to NATO deterrent - Gellner, Smith, Deachman, Granger - pp. 564-65, 571, 580-82, 584

Conventional war impossible - German & French view interested in absolute
deterrence - re Greece & Turkey - Russia & US would only fight nuclear
war - stockpiling of nuclear weapons to over-kill capacity - Gellner,
MacLean, Lambert, Deachman, Granger, Brewin - pp. 566, 567-68, 575, 577, 580-86

NATO contributions by non-nuclear powers - Churchill, Gellner - p. 586

Conventional war possible in Greece, Turkey or Norway, etc. - Cdn. contribution

of intervention force re - Gellner - p. 587

October 29, 1963

Bobcat - need of - weaknesses indicated by trials - decision re - purpose - initiation design date & subsequent decisions - modifications for artillery mounting - comparison to other NATO & Russian models - spare parts re - design changes - effectiveness - Lessard, CGS, Hellyer, Deachman, Smith, Hahn, Churchill - pp. 600-01, 606-09, 611-12.

Airborne troops within NATO - MacLean, CGS - p. 619

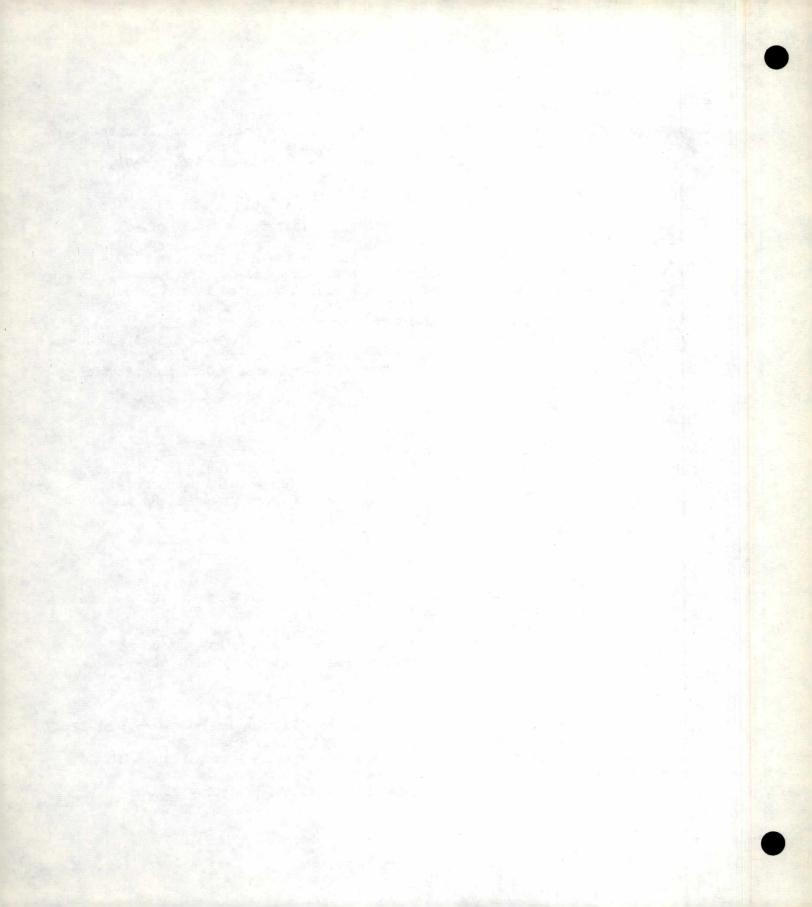
October 31, 1963

Deterrent - value of tactical forces in Europe & strategic forces in US & UK re escalation into nuclear war - Churchill, CAS - pp. 644-45

NATO determination re strike role - date - Cdn. commitment to - change & completion of - adoption of conventional role - Norstad's suggestion re strike role for 1 Air Div. - Matheson, CAS, Smith, Lambert - pp. 649-50

November 5, 1963

Review of NATO strategy - Cdn. recommendations re - Brewin, Hellyer - pp. 681-82 Cdn. & NATO tactical air support - Brewin, Hellyer, Winch - pp. 682-83 Effecting small economies in overall defence expenditures - comparison with other NATO countries - Lessard, Hellyer - p. 684 NATO multilateral force - Canadian position re - Smith, Hellyer - p. 686



NATO, GERMANY

July 9, 1963

German sub strength in war - CNS - p. 113

October 22, 1963

NATO - German contribution - Foulkes - pp. 497, 506

Revision of Cdn. NATO contribution - movement of Bde. out of forward area - position assumed by Germany - Lambert, Foulkes, McMillan - pp. 511-12, 528

Withdrawal of Bde. to reserve position - British attitude - German acceptance - MacInnis, Foulkes - pp. 515, 516, 517

Possibility of strong military Germany after 1969 - Laniel, Foulkes - p. 537

Unification of Germany - Granger, Foulkes - p. 542

October 24. 1963

Conventional war impossible - German & French view interested in absolute deterrence - re Greece & Turkey - Russia & US would only fight nuclear war - stockpiling of nuclear weapons to over-kill capacity - Gellner, MacLean, Lambert, Deachman, Granger, Brewin - pp. 566, 567-68, 575, 577, 580-86

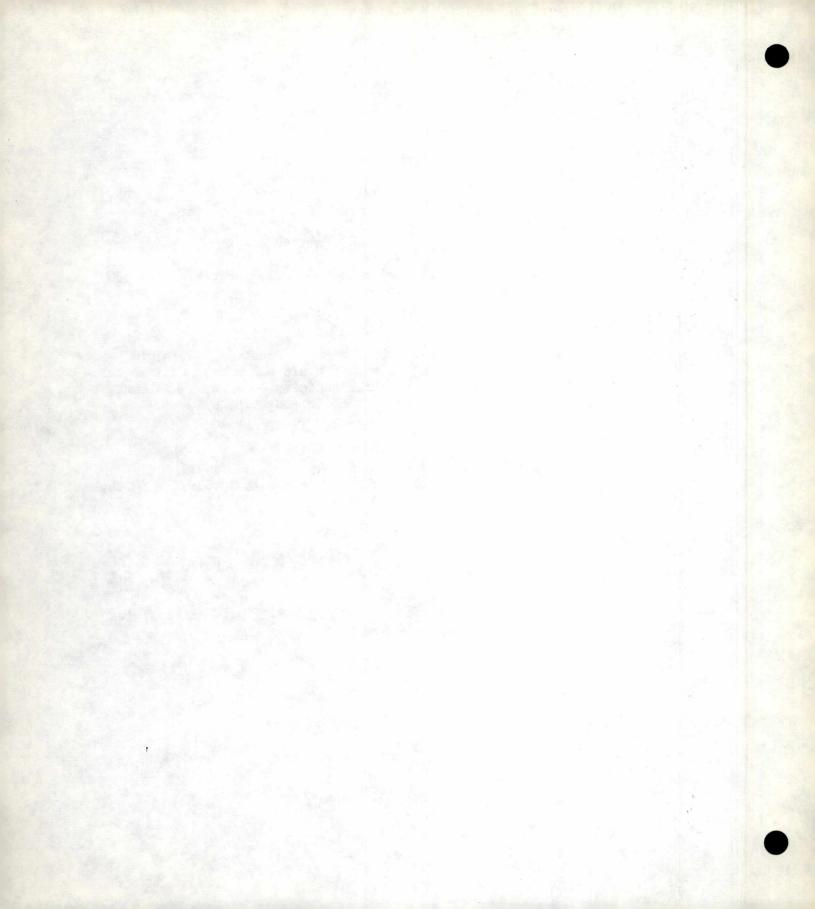
October 29, 1963

NATO defence re Germany - Lessard, CGS - pp. 594-95
Forward strategy & German re-assurance - political elements involved - Smith,
Hellyer - p. 599

October 31, 1963

CF-104 still in production - replacement re - used in various roles by Germany - dual training re - replacement by TFX - movement to another theatre - Smith, CAS - pp. 635-37

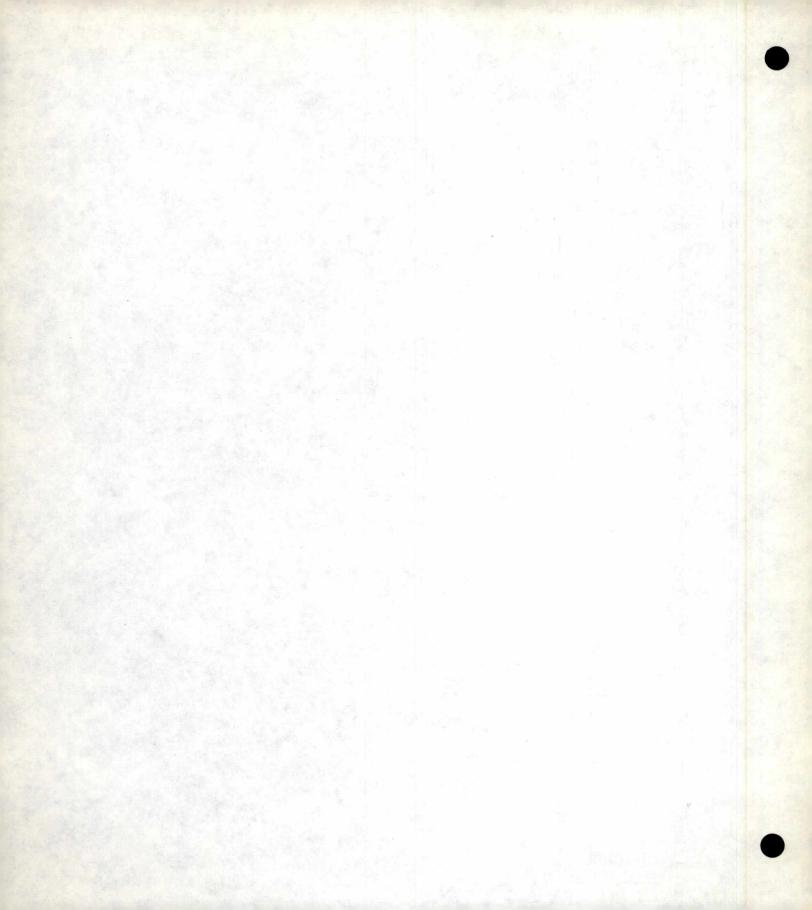
Shifting of 1 Air Div. bases from France to Germany & Belgium - difficulties re - Permissive Action Link (PAL) - Churchill, CAS - p. 644



NATO - MUTUAL AID

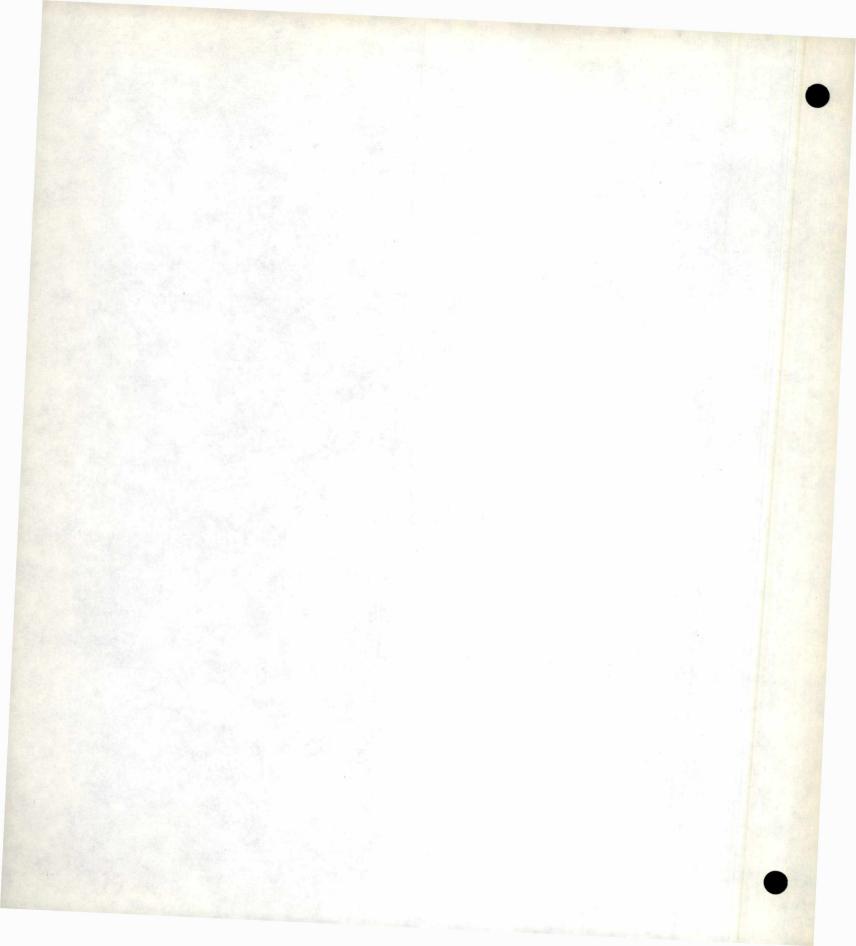
June 25, 1963

Mutual Aid - amount - Martin - pp. 236-37



July 30, 1963

DDP - production sharing - Drury - pp. 260, 264-68, 280 Cun.-Us - amounts - Drury - pp. 264-66, 268 NATO - amounts - Drury - pp. 266-68



June 27, 1963

Destroyer escorts - sonar - helicopters for - Hellyer - pp. 13-14.
Anti-sub confare - offense vs defence - Hellyer - p. 14.
Hydrofoil craft - Hellyer - p. 14.
Maritime a/c - Neptune - Argus - Hellyer - p. 14.
Re-consideration of frigate program - Hellyer - p. 19

July 2, 1963

Nuclear weapons for Navy - McMillan, Hellyer - p. 53

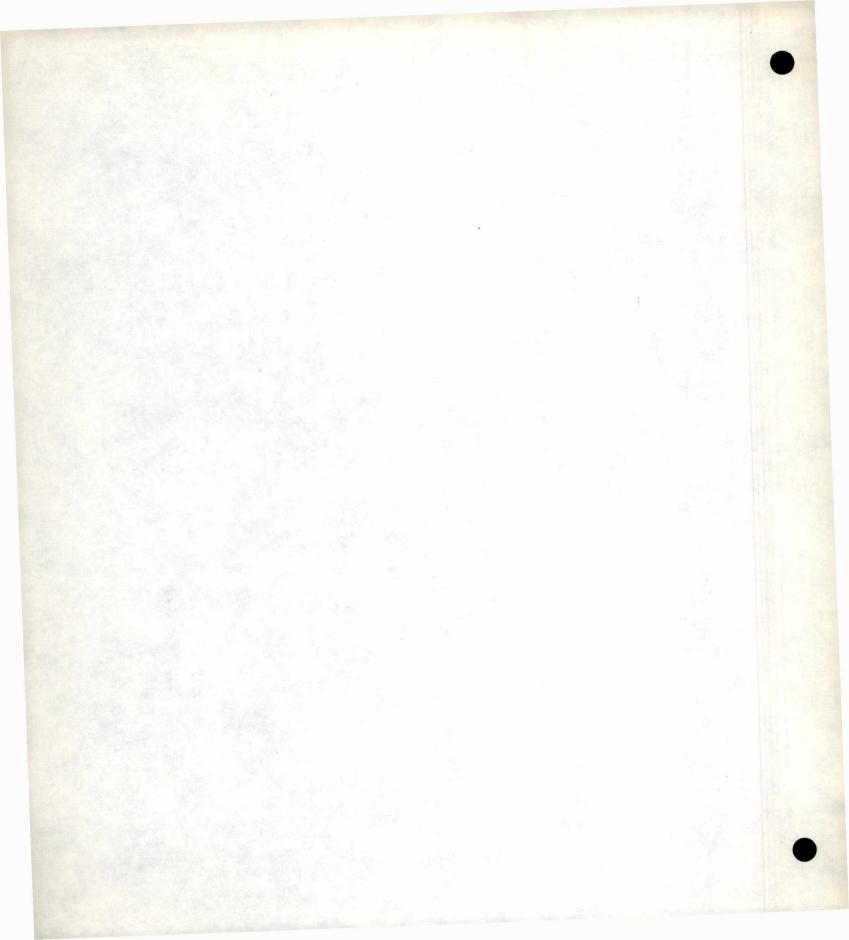
July 4. 1963

Sabotaging Navy - Churchill - p. 74
Frigate program - MacInnis, Hellyer, Lloyd - pp. 81-82

July 9, 1963

Comparative land & water masses of earth - CNS - p. 88 Commerce & ships on sea - CNS - p. 88 Purpose of - CNS - p. 89 Role of - CNS - pp. 89-90 Maritime Command - CNS - p. 89 Under NATO - ships for - CNS - pp. 89, 90, 91 Re Can. - Us arrangements - ships for - CNS - p. 89 Anti-submarine warfare - CNS - pp. 89, 90, 100, 101, 105, 94, 97 Re U.N. - CNS - p. 90 Support of Army - CNS - p. 90 Re sovereignty of Arctic - CNS - p. 90 Operational tasks - CNS - p. 90 Visits by RCN ships - CNS - p. 90 Exercises with allied ships - CNS - p. 90 Sonar - CNS - pp. 94, 97, 101 Nuclear submarine threat - CNS - p. 97 Logistic support responsibility - CNS - p. 104 Organization of - CNS pp. 107-08 Deployment of - CNS - p. 107 Manpower - CNS - p. 109 Expenditures - CNS - pp. 109-112 Ships & aircraft - CNS - pp. 91-104 Destroyers and destroyer escorts - CNS - pp. 92-97 Bonaventure - CNS - p. 92 Anti-sub capability - CNS - pp. 97, 100, 101, 105 Helicopters for - CNS - pp. 97, 101, 102 Prestonian frigates - CNS - p. 97

Submarines - CNS - pp. 97, 101, 104-05



July 9, 1963

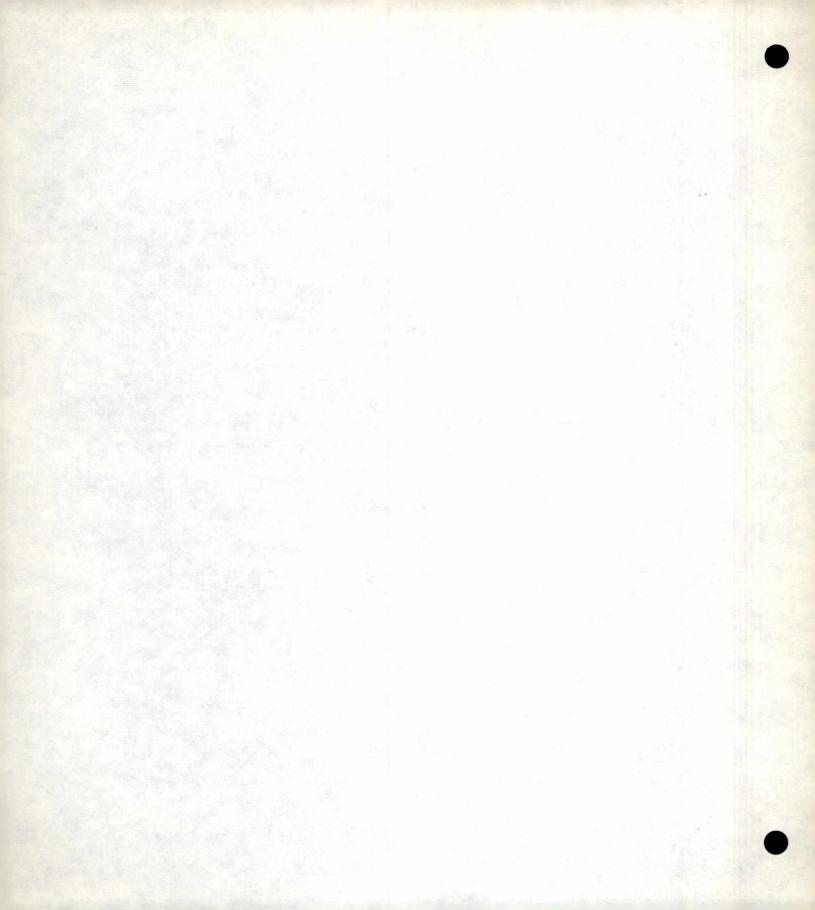
Ships & aircraft Tracker (CS2F) aircraft - CNS - p. 101 Maintenance repair & replenishment ships - CNS - p. 104 Troop carrying capacity - CNS - pp. 92, 104, 105 Research ship - CNS - p. 104 Replacement program - CNS - pp. 104-107 Submarines - Oberon - acquisition - CNS - pp. 104-05 G.P. frigates - p. 105 - CNS Hydrofoil - CNS - p. 107 Defence against ICBM & sub-launched missiles - use of nuclear a/s sub vs surface ship & maritime patrol a/c - proportions - Lambert, Churchill, Brewin, CNS, Hellyer - pp. 112-113, 120, 121-122 Deployment of fleet - Matheson, Hellyer, CNS - p. 114, 115 HMCS Labrador - change of role - Matheson, CNS - p. 114 Operations in North - borrowing ice-breaker & utilization of HMCS Provider in - CNS, Matheson, Groos - pp. 114, 117 Frigates not able to operate in North - proportion for anti-air capability as replacement for Tribal destroyers - troop transport capacity - Gross. CNS, Martineau - pp. 115, 117, 118, 122 Defence of Cdn. coastline - NATO & US arrangements - Winch, CNS - p. 116 Hydrofoil craft - development & construction, operation endurance - costs role - Lambert, Temple, CNS - pp. 119-120 Hovercraft for a/c work - CNS - p. 122 Sonar - US acceptance - CNS - pp. 120, 121 Navy - various capabilities - Hellyer, Brewin - p. 120

July 18, 1963

Defence research - Sonar - adoption by RCN & RN - CDRB - pp. 207, 208, 212 - Intramural - basic & applied - anti-sub - CDRB - p. 211

October 8, 1963

Navy - role of - under single Service Command - modification of integration of - need for new specialized ships - studies in this regard - hydrofoil craft - convoy role - decision re role & frigates - Winch, CNS, Lambert, Matheson, Lessard, Hahn, Churchill, Hellyer - pp. 318-19, 323, 325, 330-31, 332 Speed of US nuclear submarine - Temple, CNS - p. 319 Proposed frigates - speed of & comparison to US - submarine hunting capability - convoying - Temple, CNS, Hahn - pp. 319-20, 330 Russia - nuclear powered subs - Temple, CNS - p. 320 Need for ship replacement, freighters & troop carriers - Smith, CNS - p. 321 Maritime patrol craft - function - RCAF abandonment of a sqdn. - anti-sub capability - Smith, CNS, Hellyer - pp. 321-22 ICBM vs sub-BM threat - Matheson, CNS, Asselin, Winch - pp. 322, 324, 334

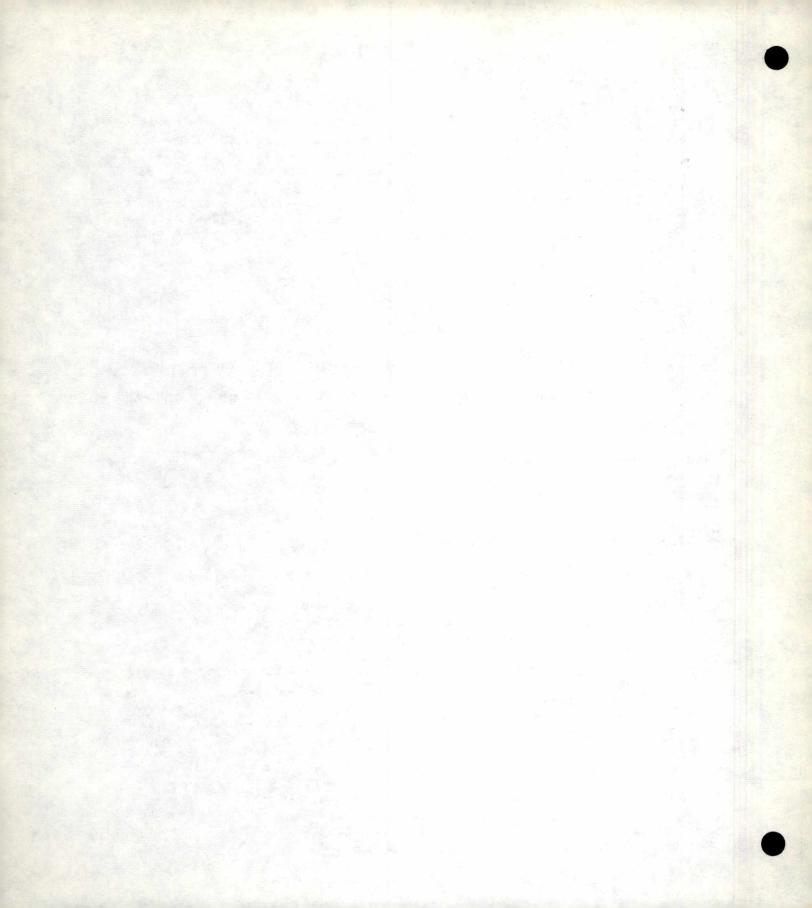


October 8, 1963

Cuba missile threat - Matheson, CNS - p. 322 Detection & warning vs convoy role of Navy - Matheson, CNS, Asselin - pp. 322, 324 Austerity frigate - reason for cancellation - Matheson, CNS - pp. 322-23 Sub threat - future development against - Lessard, CNS, Asselin - pp. 323-24 DE's - speed and A/S capability - Asselin, CNS - p. 324 Shipbuilding - planning, design and lead time - life of ship - training of personnel for frigate program - Llcvd. Hellver. CNS - pp. 325-28 Sub location by Argus. Tracker & helicopters - Tracker being brought up-todate - Hahn, CNS - pp. 328-29 Aircraft carrier as troop carrier - Hahn, CNS - p. 329 Oberon, etc. - training subs - Hahn, CNS - pp. 329, 331 Threat of Russian surface ships - Hahn, CNS - pp. 329-30 Need for ships, aircraft and helicopters - MacLean, CNS - p. 332 Co-ordination RCAF-Navy anti-sub forces & division of responsibility -MacLean, CNS - pp. 332-33 Cdn. & US development of hydrofoil - Smith, CNS, Matheson, Granger - pp. 323, 333. 334-35 Sub training - Can.-US & UK arrangements - commitment to UK re - Winch. CNS pp. 333-34 Present naval construction - Fairweather, CNS - p. 334 Sea power - composition of ships - Fairweather, CNS - p. 334 Construction of merchant ships - Smith, CNS - pp. 335-36

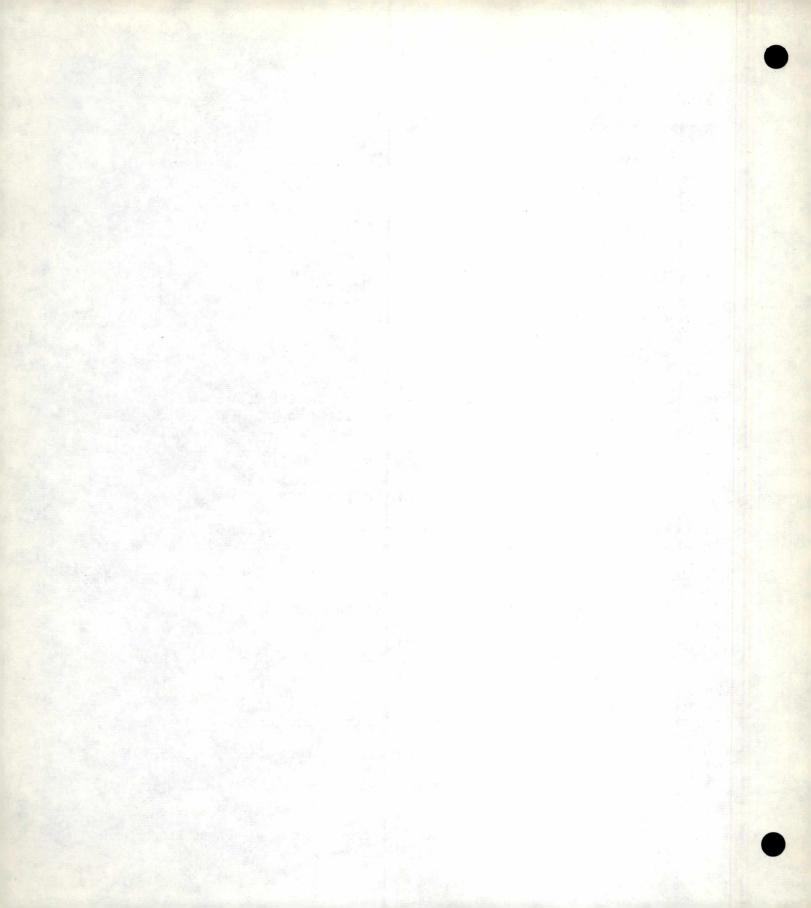
October 10, 1963

Fleet - Cmdre Plomer - pp. 342-44 Physical state of - Cmdre Plomer - p. 342 Bonaventure, Crusader & sioux mishaps - Cmdre Plomer - p. 342 Limitations of Tribal destroyers - Cmdre Plomer - pp. 342-43 Limitations of destroyer escorts - Cmdre Plomer - p. 343 Not ready during Cuban crisis - Cmdre Plomer - pp. 343, 349 Considerations re of Naval Board - pp. 343-44 Mainguy Report - Cmdre Plomer - pp. 344, 346 National Policy Co-ordinating Committee minutes - Cmdre Plomer - p. 344 Comparison with other navies - Cmdre Plomer - pp. 344, 348 Frigates too costly - Cmdre Plomer - p. 344 Shortcomings of - Cmdre Plomer - pp. 344, 348 Loss of ice-breaker - Cmdre Plomer - p. 344 Organization & management of RCN - Cmdre Plomer - pp. 345-46 Leadership & admin. poor - Cmdre Plomer - pp. 345, 348 Flag Officer - law to himself - Cmdre Plomer - p. 345 Min. & CNS held in ignorance - Cmdre Plomer - p. 345 Dismissal of management & work study - Cmdre Plomer - p. 345 Ship maintenance wasteful - Cmdre Plomer - p. 345 Planned maintenance - Cmdre Plomer - p. 345



October 10, 1963

Personnel problems & leadership - Cmdre Plomer - pp. 346-47 Senior officers leaving service - Cmdre Plomer - pp. 345-46 Morale poor - Cmdre Plomer - pp. 346, 347, 348 Service run by club - Cmdre Plomer - p. 346 Promotion - Cmdre Plomer - pp. 346, 347, 349 Executive officers not qualified to command - Cmdre Plomer - p. 346 Improvement of standards - Cmdre Plomer - p. 346 Lack of integrity at top - Cmdre Plomer - pp. 347, 348 Promotion from ranks impossible - Cmdre Plomer - p. 347 Housing shortage in Halifax - Cmdre Plomer - p. 347 Shortage of qualified personnel - Cmdre Plomer - p. 347 Mutinies result of frustration - Cmdre Plomer - p. 348 Pre-war Navy limited - Cmdre Plomer - p. 348 Shortcomings prior to WWII - Cmdre Plomer - p. 348 Cdn. Admirals amateurs - Cmdre Plomer - p. 348 Investigation of - Cmdre Plomer - p. 349 Personnel use & cost re training - Matheson, Plomer - p. 350 Protection of North with nuclear subs - Matheson, Smith, Plomer - pp. 350, 352 Frigates - function, capability, costs - comparison to US, UK & NATO forces -Mackenzie Class vessel - speed - troop accommodation - purpose-helicopters for - Asselin, Matheson, Plomer, Smith, Churchill, Lloyd, Granger, Deachman pp. 350-51-52, 359-60, 061, 365, 76-79, 80, 82-83, 84, 85-86-87 Mainguy Report - summary - mutinies - Matheson, Plomer, MacRae - pp. 351, 381-82 Construction of subs, need - for training of Navy & RCAF - Smith, Flomer, Asselin - pp. 352, 386 Ship design & construction problems - Smith, Plomer - pp. 352-53 Operational deficinecy - no inquiries re - MacInnis, Brewin, Plomer, Patterson pp. 353-54, 365, 366, 368-69 Appointments of Commodore Plomer - Lloyd, Brewin, Plomer, Winch - pp. 353, 355-56, 361-62 Promotions & grievances - poor morale - comparison with USN & UK - Lloyd. Brewin, Plomer, Fairweather, Hahn, MacInnis - pp. 354, 363, 367-68, 369, 370, 374, 375 Poor leadership at top - surgery re & promotion - chain of command - Lloyd, McMillan, Granger, Fairweather, Brewin, Plomer - pp. 355, 363, 364, 372, 373, 374-75 Helicopters - Brewin, Plomer, Asselin - pp. 355, 384, 386 Retired officers - names - re substantiation of shortcomings - MacRae, Brewin, Plomer - pp. 355, 382 Technical deficiencies - at time of Cuban crisis, etc. - Winch, Plomer, Churchill - pp. 356-57-58, 359 Shortage of technical staff - Fairweather, Winch, Plomer, Patterson - pp. 357, 364, 365-66 Sonar defects - Winch, Plomer - p. 357 Utilization & role of subs & helicopters on merchant ships - Churchill, Plomer, Lloyd, Smith, Asselin - pp. 357-58, 360, 380-81, 384



October 10, 1963

Low morale due to shortage of housing at Halifax - Lloyd, Plomer - p. 362 Naval Board - composition - liaison with Min.-civilian appointment to tabling minutes of - Fairweather, Plomer, Winch - pp. 363-64, 370

Fleet maintenance - Flag Officer responsibility - burnt-out boilers, etc. - work study group re - lack of money re - Winch, Granger, Plomer, Patterson, McMillan - pp. 364, 365, 366, 371-73, 381, 384

Air defence for fleet - guided missiles - Winch, Plomer, Smith - pp. 370-71, 380 Cmdre Plomer's departure from Navy - investigation of - Lloyd, Winch, Plomer - pp. 372, 375-76

Responsibility of Captain & Exec. Officer on ship - Granger, Winch, Plomer - pp. 372, 381

Air arm efficient - McMillan, Plomer - p. 373

Cdn. Services Colleges - value - officer recruitment - Matheson, Plomer - p. 380

Training & need for reserves - Matheson, Plomer - p. 380

Comparison of Cdn. to US & NATO ship performance - Plomer, Churchill - p. 383 Convoy transportation - atomic war versus air transport - Asselin, Plomer, Smith - pp. 384-85, 386

Subs - China, Russia, Egypt, Cuba - Asselin, Plomer - p. 385 Aircraft carriers with helicopters - Asselin, Plomer - p. 386 Offer of GNR boat - Matheson, Plomer, Deachman, Winch - pp. 386-87

October 15. 1963

Comparative performance of Navy - CNS - p. 391

Chain of responsibility - CNS - pp. 391-92

Promotion policy - CNS - p. 392

Pre-War senior officers - leadership - p. 393

State of RCN ships - Crusader, Crescent, Mackenzie DE's, 3.70 guns - CNS - pp. 393-94

Ship maintenance - material failure - design deficiency - CNS - pp. 394-96 Operation availability of ships during Cuban crisis - CNS - p. 397, 405

Manpower strengths & complement of fleet - CNS - p. 398
RCN Personnel Structure Committee - function & composition - subsequent reorganization of personnel structure - CNS - p. 398

Mainguy Report - subsequent reforms - CNS - pp. 397, 399

Ad Hoc Committee on navel objectives - composition & function - CNS - pp. 398-99, 401, 411,

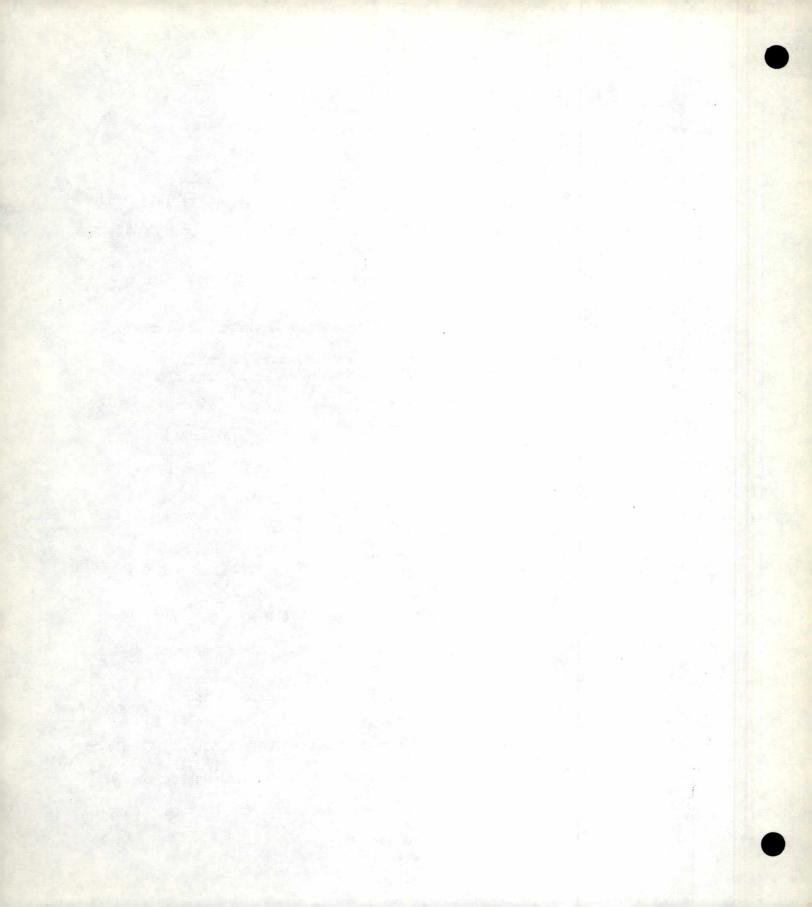
Frigates - costs - CNS, Temple - p. 399

Crusader & Crescent - construction & life - maintenance re - Matheson, Temple, MacInnis - pp. 400, 404-05

Mainguy Report - recommendations & implementation re pay & allowances, etc. - Matheson, CNS - p. 400

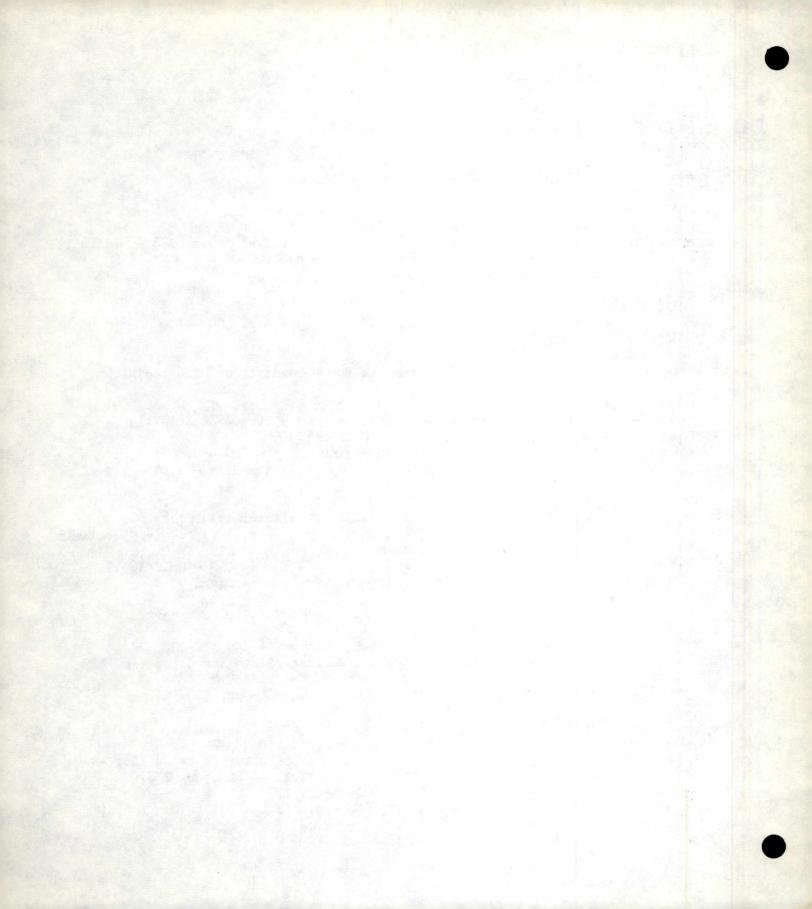
Ships - replacement need & NATO commitments - maintenance re - Matheson, CNS, MacInnis - pp. 400-01, 404-05

Expenditures re - Matheson, CNS - pp. 401-02



October 15, 1963

Testing & development of new equipment - MacLean, CNS - p. A02 Promotions - effect re attendance at defence colleges - selection. etc. -MacLean, CNS, MacInnis - pp. 402, 403-04 Retirement of officers - ages, resignations - MacLean, CNS - pp. 402-03 CDR Plomer's criticisms - studies & investigation of - Groos, CNS - p. 403 Fleet - emergency readiness of & efficiency - consideration by Naval Board -CNS, MacInnis, Brewin - pp. 405-06, 407-08 Bonaventure - feed pumps out of action for NATO exercize - Brewin, CNS - p. 406. Tribal destroyers - versatility of - Brewin, CNS - pp. 406-07 Iroquois - boiler damage - Brewin, CNS - p. 407 Ship deficiencies lists - Brewin, CNS - p. 407 Naval uniforms - CNS - p. 408 Boards of Inquiry - court martials, etc. - Brewin, CNS - p. 408 Commendations re CDR Plomer - CNS, Brewin - p. 408 Officer grievances - Brewin, CNS, MacInnis - p. 409 Fleet - anti-aircraft defence for - missiles for - composition of - decisions re - Brewin, CNS - pp. 409, 411-12 Submarine construction - need for training - costs - Lambert, CNS - pp. 409-10 Frigates - costs - helicopters for - air defence capability - construction intervals - Lambert, CNS, Lloyd - pp. 410-11-415-16 MacKenzie class DE's - specialized anti-submarine ships - CNS - p. All Development of 3.70 AA gun - 5.54 gun & surface-to-air missiles - cost - use by RN & USN - MacRae, CNS, Winch - pp. 412-13 Strengths - officers and men - MacRae, CNS - pp. 413-14 Ad Hoc Cttee recommendations - versatility of fleet - general purpose frigates - anti-submarine role - A/A capability, etc. - Lloyd, CNS - pp. 414-15 Frigate suitability for locating missiles - Lloyd, CNS - p. 415 Experience & qualifications of senior RCN officers - Lloyd, CNS - pp. 416-17 CDR Plomer's representations to Min. & subsequent release - Lloyd, CNS, MacInnis - pp. 417-18 Fleet readiness - deficiencies on Bonaventure - comparison to NATO navies -McMillan, CNS, Churchill - pp. 418, 421 Morale of personnel - McMillan, CNS, Churchill, Hellyer - pp. 418-19, 422 Cruising turbines on St. Laurent destroyers - deficiencies - Kahn, CNS - p. 419 Bow damage to Bonaventure & Magnificent - Hahn, CNS - pp. 419-20 Ship deficiencies - during Cuban crisis - Churchill, CNS - pp. 420-421 Sea time of fleet - Churchill, CNS - pp. 420, 422 NATO exercises - participation in - Churchill, CNS - pp. 421, 422 Saskatchevan - boiler defects - Deachman, CNS - p. 422 GP frigates - troop transport - helicopters for - anti-submarine capability operation with carrier force - troop landing capacity - Granger, CNS, Matheson, Deachman, Brewin - pp. 422-23-24-25-26, 431 Ship maintenance responsibility - Granger, CNS - p. 423 Drydock facilities - shortage - Granger, CMS - p. 423 Naval role in NATO & UN commitments - Matheson, CNS - pp. 424-25



October 15, 1963

Increased utilization of helicopters - Lambert, CNS - p. 426

Management studies - maintenance studies - costs & savings - Lambert, CNS - pp. 426-27

Merchant troop carriers - fitted with helicopters - Smith, CNS, MacInnis - p. 428

Surface ships vs submarines re anti-submarine role - MacInis, CNS - p. 429 Communications - ship/air versus submarine/air - CNS - p. 429

Anti-submarine role & conventional war - convoy & supplies - control of sea communications - protection of Cdn. shores & shipping - Brewin, CNS - pp. 429-30

Destroyer escorts - Cadillacs - Browin, CNS - p. 431

Destroyer escorts & submarine attack - Brewin, CNS - p. 431

Anti-submarine role as specialized task of NATO - Brewin, CNS - pp. 431-32

October 17, 1963

Protest against press report that Cttee dismissed CDR Plomer's charges of naval inefficiency, etc. - Brewin - p. 437

CDR Plomer's dismissel from Navy - statement by former Min. of ND - Patterson - p. 438

Surface ships vs submarines - exploration of sub surface sea travel - Simonds, Matheson - pp. 443-44

October 22, 1963

Maritime defence - anti-sub development - ambitions of Air Force & Navy - Foulkes - pp. 495, 496

Anti-nuclear submarine defence requirement - development of - Foulkes - p. 506 Anti-submarine operations in Atlantic, Pacific & Arctic - Foulkes - p. 507 Nuclear depth charges - Temple, Foulkes - p. 519

Supply of forces by sea not vizualized - NATO shipping board - allocation by - Smith, Foulkes - p. 536

Tracker - carrier anti-submarine defence - missile sub threat - studies and research re - Brewin, Foulkes - pp. 538-40

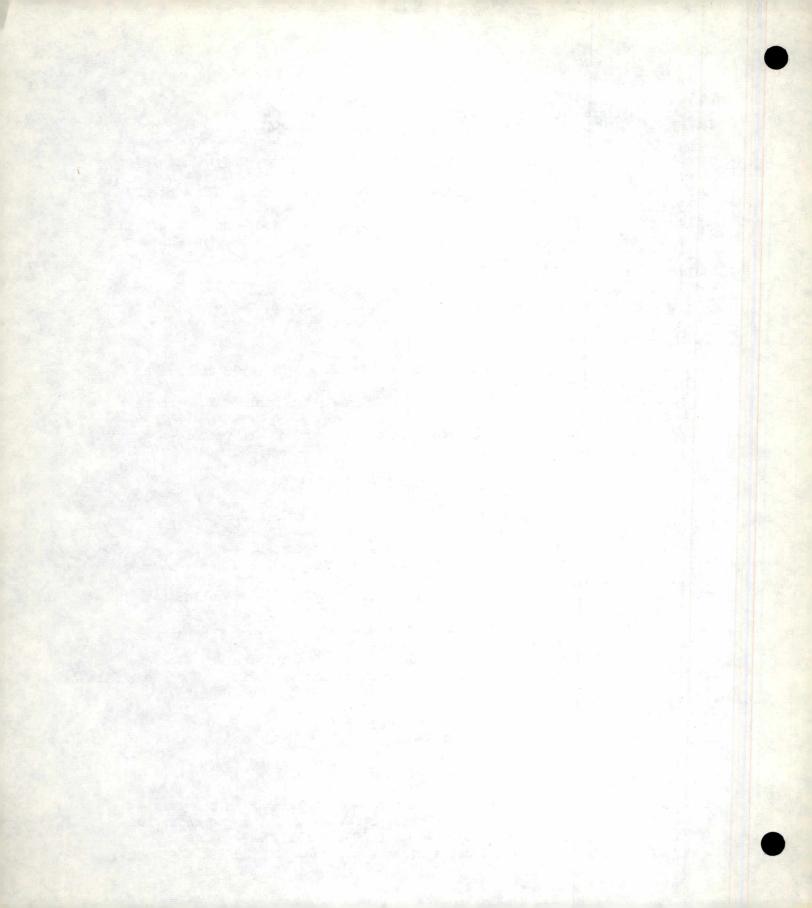
Dealing with submarine threat adds to deterrent - Brewin, Foulkes - p. 540
Average time of fleet at sea - letter & accompanying appendix by CNS - pp. 544-47

October 24, 1963

Nuclear depth charges - Temple, Gellner - p. 564

October 28, 1963

Review of future defence policy - studies re - policy ready in new year - examination of Western strategy - special review of naval programs, ie., anti-submarine warfare - Hellyer - pp. 4109-10, 4113, 14
Submarine missile threat - defence against - MacLean - pp. 4115-16



October 29, 1963

Design merchant ships for military convoy use - UK & US - Smith, CGS - p. 599
Unification of ordnance & supply services - procurement of FN rifle - Air
Force procurement of helicopters - food, etc. - co-op with Navy & Air
Force - common supply service - Winch, CGS, Deachman - pp. 616-17

October 31, 1963

Nuclear missile-firing submarine threat - defence against difficult - MacRae, CAS - p. 638.

ICBM, ballistic missile submarine & bomber threats - degree of - statement by US Def. Sec. re - hardening of sites - accuracy of - defence against - Churchill, CAS, MacInnis, Lambert, Hahn, Granger, Smith - pp. 639-42

US tests re nuclear vs conventional anti-submarine arms - McMillan, CAS - p. 648

Aerial recce re submarines - research re - nuclear depth charges for - Granger, CAS - p. 652

November 5. 1963

Review of policy & commitments - Navy requirements - procurement equipment programs - cancellation of frigate program - need of info. by Cttee. re-sharing of info. in camera - Winch, Hellyer, Brewin - pp. 665-67, 671, 672, 678

Acquisition of Oberon subs from U.K. - for anti-sub training - subs on loan - used as anti-sub barriers - available to NATO - Hellyer - pp. 665-66

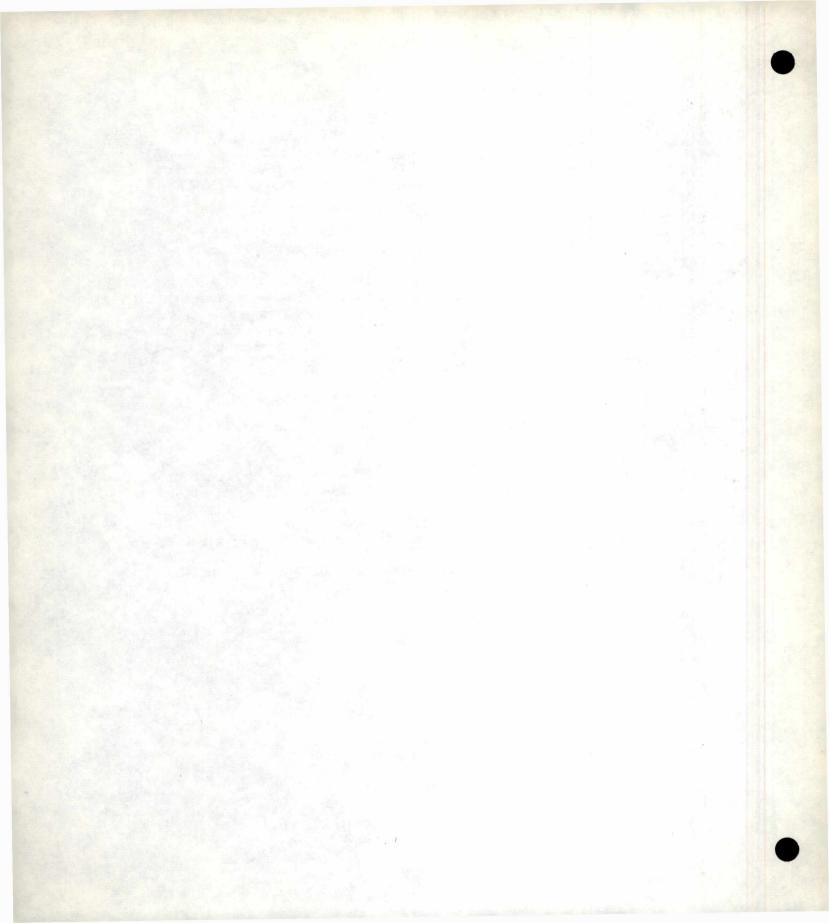
Anti-submarine studies - re future - Hellyer - p. 667

Cost of new subs - Lessard, Hellyer, Smith - pp. 684, 687

Future research re anti-submarine capability - greater role by aircraft - Lessard, Hellyer, Smith - pp. 684, 686

Capability re Russian submarine threat - Lessard, Hellyer - pp. 684-85

Air defence re naval force - Smith, Hellyer - pp. 686-87



NAVY SEIPBUILDING

June 27, 1963

Re-consideration of frigate program - Hellyer - p. 19

July 2, 1963

Frigate program - review of - Lloyd, Hellyer - pp. 48-49

July 9, 193

Navy - replacement program - CNS - pp. 104-07 submarines - Oberon - acquisition - CNS - pp. 104-05 GP frigates - CNS - p. 105 Sub construction in Canada - Groos, CNS - p. 118

July 30, 1963

DDP - shipbuilding program - Drury - pp. 262, 272-73, 274

October 8, 1963

Hydrofoil craft - convoy role - decision re role & frigates - CNS, Matheson, Lessard, Hahn, Churchill, Hellyer - pp. 323, 325, 330-31, 332

Proposed frigates - speed of & comparison to U.S. - submarine hunting capability - convoying - Temple, CNS, Hahn - pp. 319-20, 330

Austerity frigate - reason for cancellation - Matheson, CNS - pp. 322-23

Shipbuilding - planning, design & lead time - life of ship - Lloyd, Hellyer, CNS - pp. 325-28

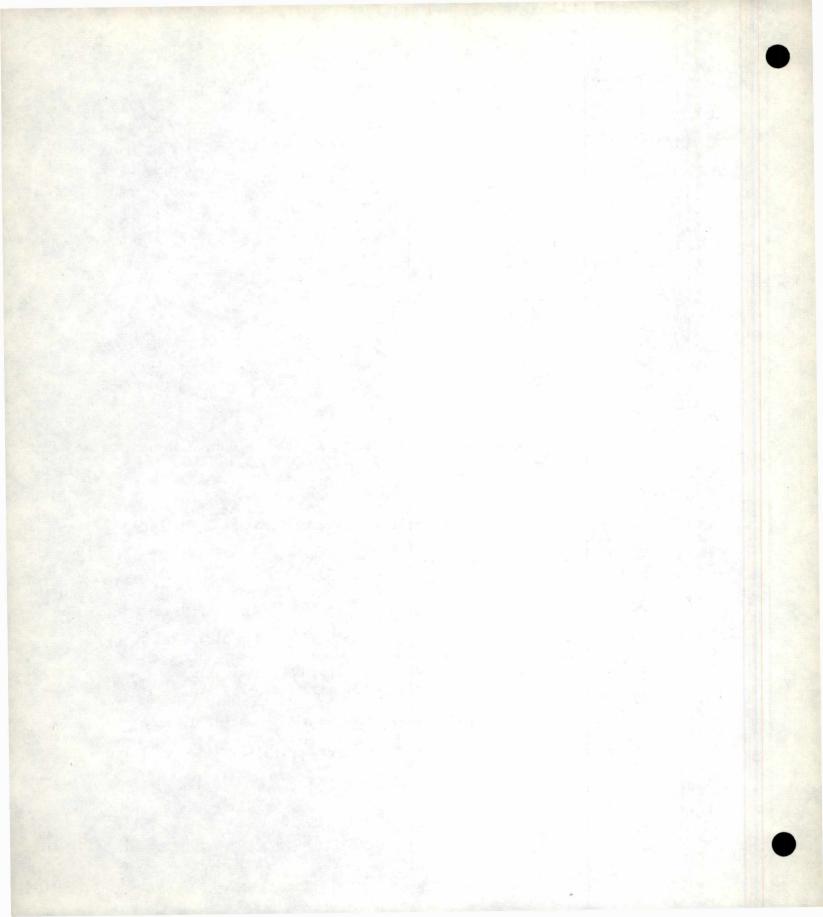
Present naval construction - Fairweather, CNS - p. 334

Construction of merchant ships - Smith, CNS - pp. 335-36

October 10, 1963

Frigates - function & capability - costs - comparison to U.S., U.K. & NATO forces & Mackenzie Class vessel - speed - troop accommodation - purpose - helicopters for - Asselin, Matheson, Plomer, Smith, Churchill, Lloyd, Granger, Deachman - pp. 350-51, 352, 359-60, 361, 365, 376-79, 380, 382-83, 384, 385-86-87

Construction of subs - need - for training of Navy & RCAF - Smith, Plomer, Asselin - pp. 352, 386
Ship design & construction problems - Smith, Plomer - pp. 352-53



NAVY SHIPBUILDING - (Cont'd)

October 15, 1963

Ship maintenance - material failure - design deficiency - CNS - pp. 394-96 Frigates - costs - CNS, Temple - p. 399

Crusader & Crescent - construction & life - maintenance re - Matheson, Temple, MacInnis - pp. 400, 404-05

Ships - replacement need and NATO commitments - maintenance system - Matheson, CNS, MacInnis - pp. 400-01, 404-05

Submarine construction - need for training - costs - Lambert, CNS - pp. 409-10 Frigates - costs - helicopters for - air defence capability - construction intervals - Lambert, CNS, Lloyd - pp. 410-11, 415-16

October 17, 1963

Development of submarine cargo or supply ships - Lloyd, Simonds - pp. 448-49 Submarine cargo transport - no future for surface convoys - Granger, Simonds p. 463

Defence research - greater emphasis - examination of submarine cargo carrier - co-ordination of - Deachman, Simonds - pp. 469-70

October 22, 1963

Hydrofoil development - use of - Foulkes, McMillan - pp. 495-96, 528 Missile submarines - costs - Foulkes - p. 496

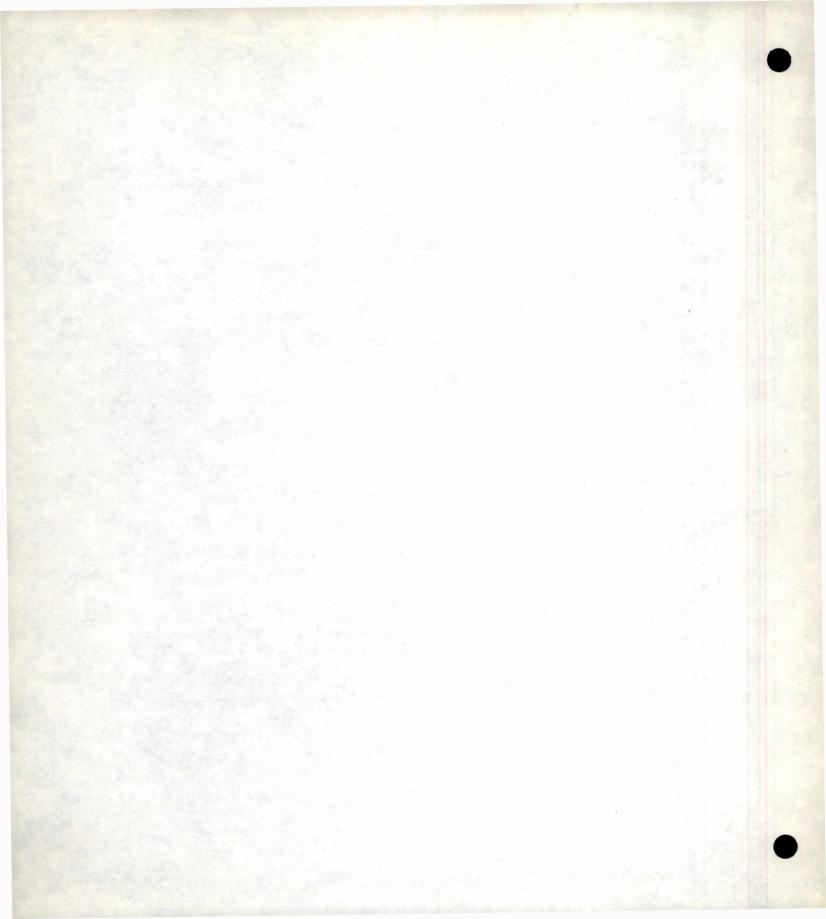
October 29, 1963

Design merchant ships for military convoy use - U.K. & U.S. - Smith, CGS - p. 599

November 5, 1963

Review of policy & commitments - Navy requirements - procurement equipment programs - cancellation of frigate program - need of info. by Cttee. re - sharing of info. in camera - Winch, Hellyer, Brewin - pp. 665-67, 671, 672, 678

Future construction of submarines in Canada & acquisition of Oberons - production-sharing agreement re CL89 recce. drone - Laniel, Hellyer, MacInnis - pp. 685, 687-88.



June 27, 1963

Air Div. - role change - drop of bombs on targets - Hellyer - pp. 14, 15
Reduction of sqdns - Hellyer - p. 14

Atomic devices - use by - Hellyer - pp. 14, 15

Nuclear policy - adoption of - Hellyer - pp. 14-15, 16

Cdn. commitments - Hellyer - pp. 14, 15, 16

Inter-allied nuclear force - Hellyer - p. 15

Tactical weapons - need & use - Hellyer - pp. 15-16

Deterrence - Hellyer - p. 16

Honest John - use of - not member of nuclear club - nuclear bombs for 1 Air Div. - Hellyer - p. 15

Bomarc armed with atomic warhead to be effective & cook bomb - Hellyer - p. 17 CF-101B - carry both conventional & nuclear (Genie & Falcon weapons - Hellyer - p. 17

Can.-US negotiations re nuclear defensive weapons - Hellyer - p. 17 CF-101 use only high explosive warheads for training - Hellyer - p. 18 Arrangements re nuclear weapons use by CF-101 & Bomarc - Hellyer - p. 18

Safety devices to prevent explosion in event of bomber crash - Brewin,

Hellyer - p. 21 .

Cooking of nuclear bomb & difference between warhead carried by bomber & ICBM - Winch, Hellyer, Churchill - pp. 22, 23

MATO nations having bilateral agreements with US re use of nuclear weapons - Baldwin, Hellyer - p. 24

Effectiveness of Bomarc greater with nuclear warhead - McMillan, Hellyer - p. 24

July 2, 1963

Cooking of nuclear warhead - Hellyer, Dr. Field, Lambert, Smith, Granger, Churchill, Matheson, Winch, Hahn, MacLean - pp. 30, 31, 33, 34, 35, 36, 38, 40, 41, 42

Fallout - effects of & dangers from - Dr. Field, Winch, Smith, Hahn, - pp. 30, 31, 39

Fallout & anti-ICBM's - Winch, Dr. Field, McMillan, Hellyer - pp. 32-33, 38 Upper atmosphere - height of - Smith, Dr. Field - pp. 33-34

Non-explosion of nuclear warhead on ground impact - & handling hazards - Dr. Field, McMillan, MacInnis - pp. 31, 34-35, 39, 43

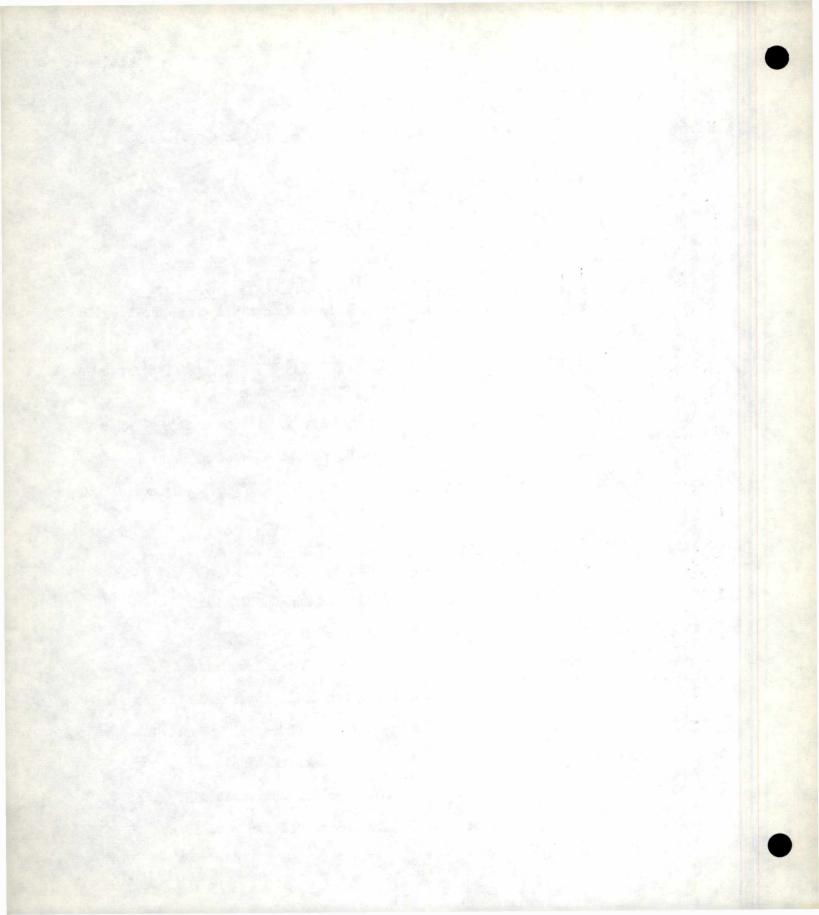
Cooking of nuclear warhead by Falcon missile - Churchill, Dr. Field, Smith - pp. 35, 36, 39

Protecting nuclear warheads against cooking - Smith, Churchill, Dr. Field, MacInnis - pp. 39, 40, 41

Cooking nuclear warhead by Bomarc - Smith, Field, Hahn, MacInnis - pp. 39, 40 Fision, fusion & chain reaction - Dr. Field - p. 42

Conventional vs nuclear equipped CF-101 & relative effectiveness & location - Lambert, Hellyer, Temple - p. 43, 46-47 - Deachman

CF-101 equipped to carry Genie or Falcon - Deachman, Hellyer - p. 47



July 2, 1963

Membership in nuclear club & custody & control of weapons - Lessard, Hellyer, Brewin, Winch - pp. 51-52 Nuclear weapons for Navy - McMillan, Hellyer - p. 53

July 4, 1963

U.S. authority re use of nuclear weapons - Hellyer, Lambert - p. 72

Decision re nuclear weapons - Churchill - p. 74

Nuclear weapons at battalion level - Deachman, CCOS, Winch - p. 79

Nuclear sqdns. in France - CCOS, MacLean - p. 65

Conventional & nuclear arms - balance, review of - flexible response - provocation - CCOS, Brewin, Winch, Hellyer, MacLean, MacInnis - pp. 67, 68

70-72, 74, 79, 80-81

Tactical nuclear weapons - control - use - stockpiling - decision re acquisition - CCOS, Winch, Hellyer, Brewin, Lambert, Deachman - pp. 68, 69, 72, 78, 79

Fire power - increase by nuclear weapons - CCOS, Deachman, Brewin - p. 79

July 9, 1963

Cooking nuclear bomb - University of Alta. Scientist's brief - contradiction - calling of Dr. Scott - Brewin - p. 123

July 11, 1963

Galling of Dr. Scott - Brewin - p. 128
Army - survival operations - nuclear detonation reporting - CGS - p. 145

July 16, 1963

1 Air Division - muclear weapons - small yield - CAS - pp. 176, 177

July 18, 1963

DRB - classified info from US made available on "Need to Know Basis", i.e., nuclear weapons, cooking effect, etc. - Winch, CDRB - pp. 223-24, Request for copies of "Nuclear Weapons Effect Booklet" - Brewin, CDRB - p. 224

July 25, 1963

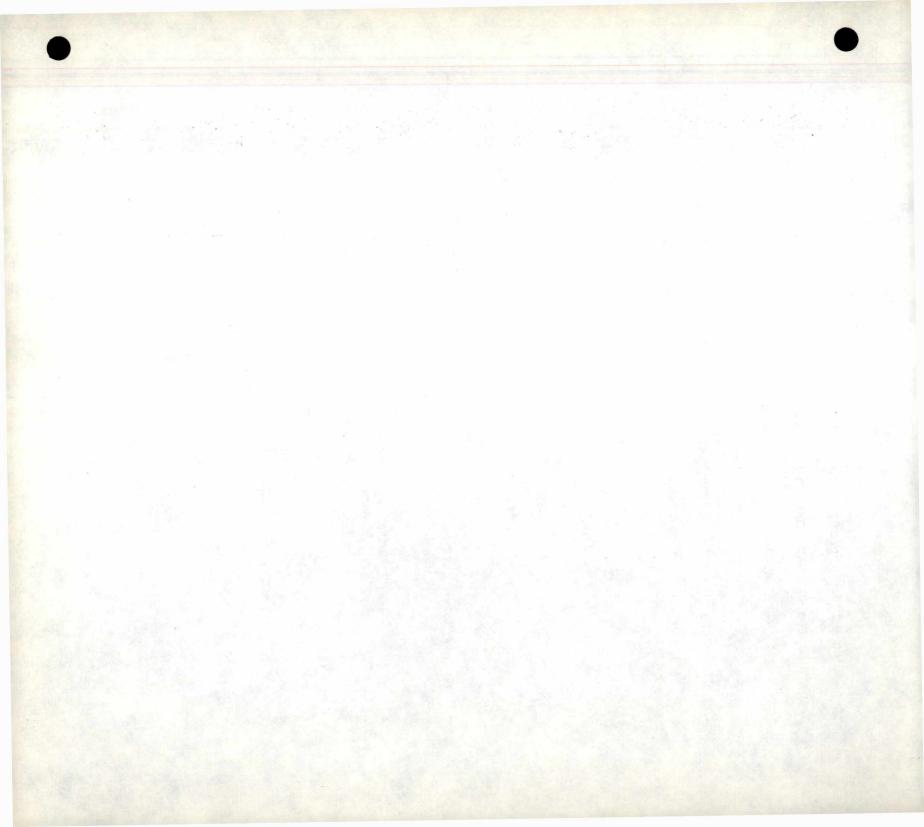
Deterrence being accepted by nuclear powers - Martin - p. 232

Acquisition of nuclear weapons - Martin - pp. 237, 241

Future & present commitments re nuclear role & NATO nuclear role - Brewin,

MacLean, Martin - pp. 247-49

Re-negotiation & review of nuclear role - Patterson, Lloyd, Martin - pp. 250-51



August 1, 1963

Effectiveness of nuclear armed Bomarc or CF-101 against bomber carrying hydrogen bombs - cooking vs triggering -Dr. Scott - pp. 287-92, 293, 294, 295, 297, 298, 300, 303, 305, 308, 310, 311, 312 Dr. Keyston - pp. 292, 293, 295, 298, 299, 301, 302, 305-06, 309, 311, 312-13 Matheson - pp. 293, 294, 295, 301, 307 Dr. Trainor - pp. 294, 296, 301, 307, 310 Fairweather - p. 295 Churchill - pp. 295, 301, 302, 304, 305, 309 Groos - pp. 296-97 Temple - pp. 297-98, 305 Dr. Sample - pp. 298, 299, 306, 312, 313 Lambert - pp. 298, 299, 312, 313 Dr. Field - pp. 299-300, 308-09 Smith - p. 300 Hahn - pp. 301, 302, 307 Asselin - pp. 302, 303-04, 305, 311 Baldwin - p. 304 Lloyd - p. 304 Brewin - pp. 305, 306, 307 Deachman - p. 308 MacLean - pp. 310-11 McMillan - pp. 311-12 General appraisal of steps taken by DND re conclusion on nuclear cooking. etc. - Lloyd - p. 314

October 17. 1963

Adoption of strategic nuclear weapons - Winch, Simonds - p. 442

Canada not to adopt nuclear weapons - Simonds, Winch, Martineau - pp. 442, 443

Tactical nuclear weapons - escalation to strategic - Simonds - pp. 445-46

Nuclear threat - Initiative with enemy - Bomarc vulnerable - Simonds,

MacLean - pp. 446-47, 474

Canadian role re prevention of nuclear war - Lessard, Simonds - pp. 449-450

Acquisition of nuclear weapons - marginal value - too expensive - Brewin,

Simonds - p. 452

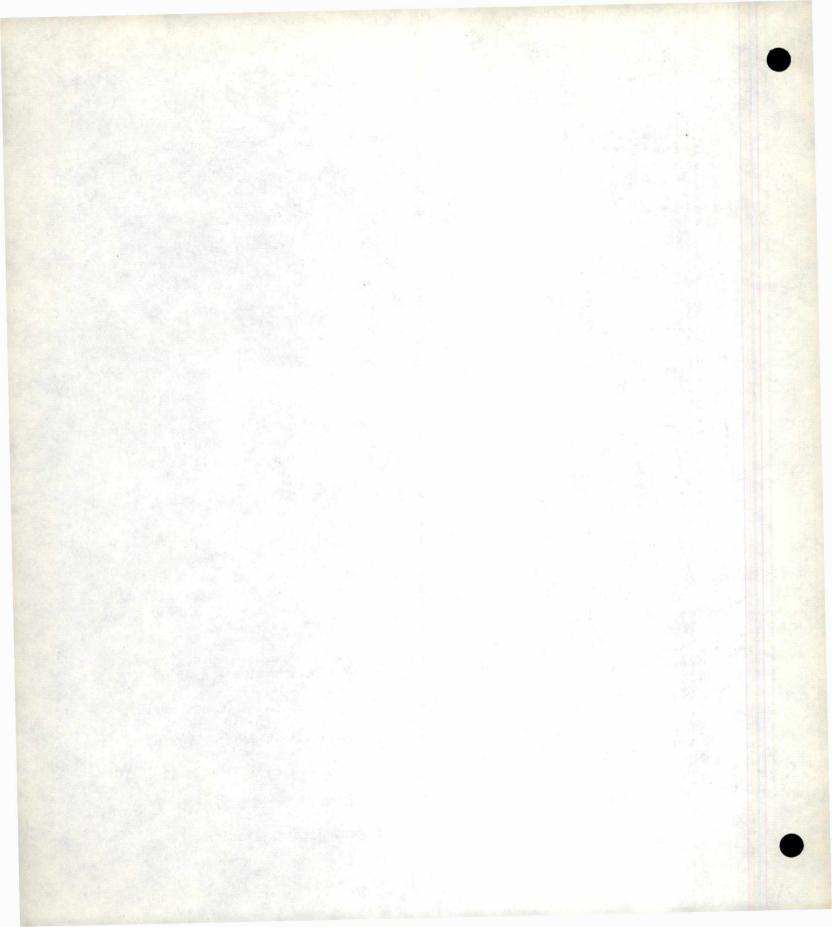
Bomber advantage over fighter - threat with nuclear weapons - Simonds, Brewin - pp. 453-54

Use of tactical nuclear weapons by Field Commander - Honest John - Brewin, Simonds - p. 454

Escalation into a nuclear war - nuclear weapons no place in defence role (NATO) - Hahn, Simonds - p. 458

Protest against headline in Citizen indicating Simonds' urged Canada to acquire its own H-bomb - Simonds, Smith - p. 459

Major war without use of nuclear weapons - Granger, Simonds, MacInnis, Patterson - pp. 462, 475-76



NUCLEAR WARRARE (Cont'd)

October 17, 1963

Nuclear weepons - Pentagon influence - Granger, Simonds - p. 463

Europe can't be defended by nuclear arms - defence by conventional means potential power of Russia - defence of Europe necessity for defence of
North America - McMillan, Simonds - pp. 466-67

Deterrent - Canadian role re - conventional role for NATO - phasing out of
nuclear role for Canada - McLean, Simonds, Matheson - pp. 474-76

Chinese threat - nuclear weapons in future - MacLean, Simonds - p. 476

ICBM's - US and Russian strengths re - Temple, Simonds - pp. 477-78

Nuclear versus conventional forces - use of - Smith, Simonds - p. 478

Nuclear warheads at US bases in Nfld. - Winch, Simonds - p. 479

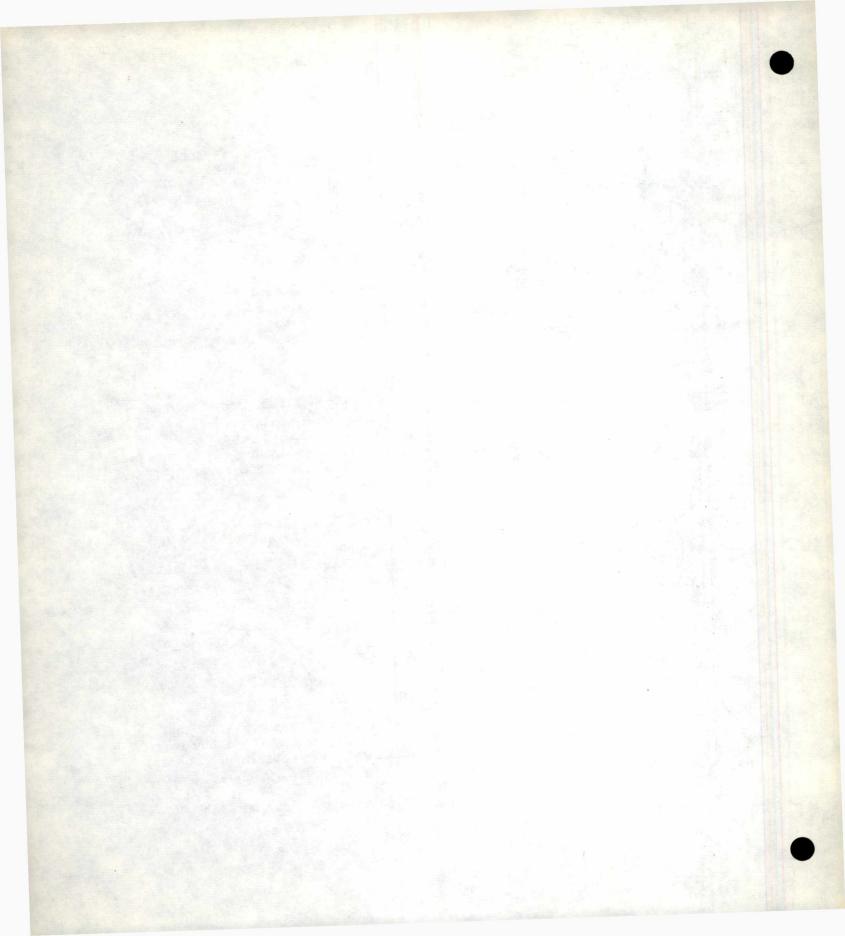
Paper for Defence Committee by Mr. D.B. Scott, etc. of the University of
Alta. re recent appearance before Cttee on nuclear bomb cooking - pp. 483-90

October 22, 1963

l Air Div. - aircraft of - additional lift capacity - strike recce role of non use of French air Bases - nuclear weapons for - pp. 496, 497, 499-500
Nuclear war vs conventional war - Brewin, MacInnis, Foulkes - pp. 513-15
Control over nuclear arms in Europe - US position re - Lessard, Foulkes - p. 516
Bde. - armed with Honest John - reason for - if withdrawn into reserve, no
need for nuclear weapons - McMillan, Foulkes - p. 528

October 24, 1963

Defence policy objectives - military doctrine - nuclear policy & commitments deterrents, etc. - re NATO - Gellner, Lambert, Asselin, McMillan, Temple, Croos, Churchill, Patterson, Deachman, MacRae - pp. 552-60, 564, 568-71, 573-74-76, 584, 586 NATO use of nuclear weapons - Gellner, Asselin - pp. 557-58 Unlikely Canada to be involved in nuclear war - Gellner - p. 560 Canada should not participate in multilateral nuclear force - cost of -Gellner, Baldwin, Patterson - pp. 563-64, 575 Nuclear weapons & anti-missile defence - Gellner - pp. 564-65 Nuclear depth charges - Temple, Gellner - p. 564 US control of nuclear weapons - Gellner - pp. 565-66 Conventional war impossible - German & French view interested in absolute deterrence - re Greece & Turkey - Russia & US would only fight nuclear war stockpiling of nuclear weapons to over-kill capacity - Gellner, MacLean, Lambert, Deachman, Granger, Brewin - pp. 566, 567-68, 575, 577, 580-86 NATO contributions by non-nuclear powers - Churchill, Gellner - p. 586 Ottee to submit interim report urging gov't to withdraw from nuclear commitments - Churchill - p. 587



October 29, 1963

Honest John - authority to use - technical agreements being worked out with US - function of - efficiency of Bde. re - Lessard, CGS, MacLean - pp. 600, 618, 619

Bde. - use of nuclear weapons - Lambert, CGS - p. 603

Escalation into nuclear war - services not to use a strategic nuclear weapon - Baldwin, CGS - pp. 613-14

October 31, 1963

1 Air Div. - strike role - a/c configured for - use of air-to-surface missiles strike role exclusively nuclear - possible use of nuclear weapons on purely
military targets - Lambert, CAS - pp. 632-35

Limited use of nuclear weapons - escalation of - constraint re use - Lambert, CAS - pp. 634-35

1 Air Div. - movement of sqdns. out of France for arming - increasing normal alert to reinforced alert - Churchill, CAS - pp. 642-43

Deterrent - value of tactical forces in Europe & strategic forces in US & UK re escalation into nuclear war - Churchill, CAS - pp. 644-45

US tests re nuclear vs conventional anti-submarine arms - McMillan, CAS - p. 648

November 5, 1963

Acquisition of nuclear warheads for effectiveness of weapons - Canada-U.S. agreement re - for CF-101, Honest John, CF-104 & Bomarc - storage space for - Hellyer - p. 665

Canada-U.S. agreement re nuclear weapons - request for tabling of - motion - difficulties re for Cttee. - possible future limitations re - time element - technical nature of - control, custody & storage of warheads - cost-sharing re - concurrence of NATO countries - Winch, Hellyer, Lambert, Brewin, Smith, Lessard, Patterson, Hahn, Laniel, Churchill, Martineau, MacLean, MacInnis - pp. 668-69, 670-71, 672-73, 673-74, 678-79-80

Storage for nuclear weapons - Martineau, Hellyer, Hahn - pp. 669-670

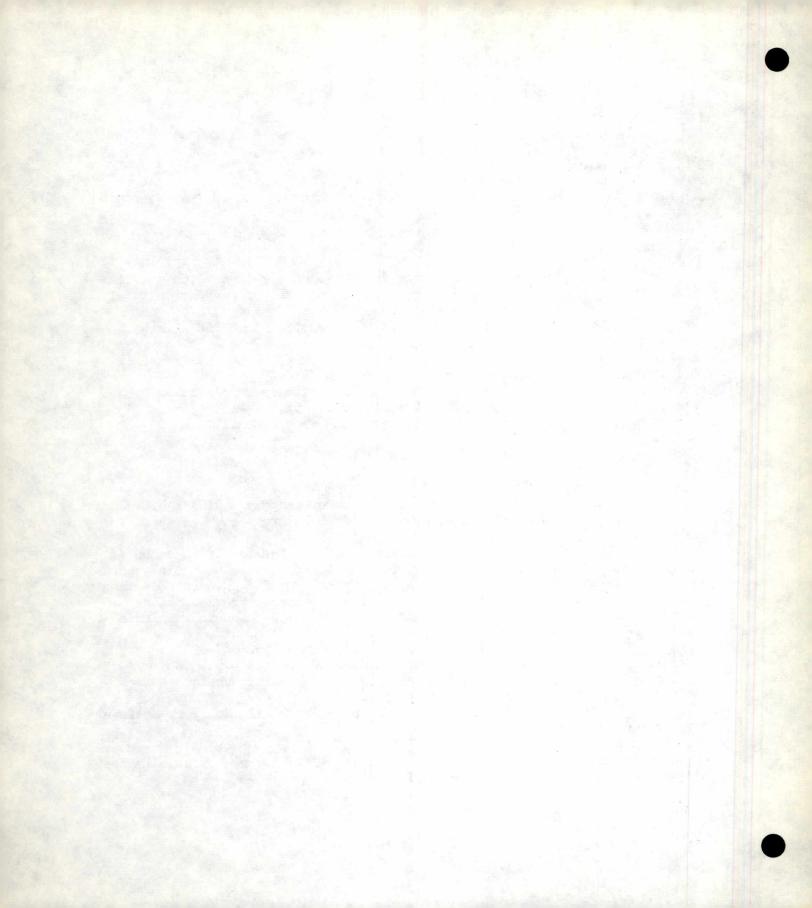
Availability of Genie rocket for Voodoo - Hellyer, Churchill - pp. 665, 674-75

Limited nuclear war - escalation of - possibility of small incursions
deterrent - Hellyer, Churchill - pp. 675-76

Nuclear weapons yield - availability of info. re - Churchill, Hellyer, MacLean - pp. 675-76-77-78

Tactical nuclear deficiency - Lessard, Hellyer - p. 683

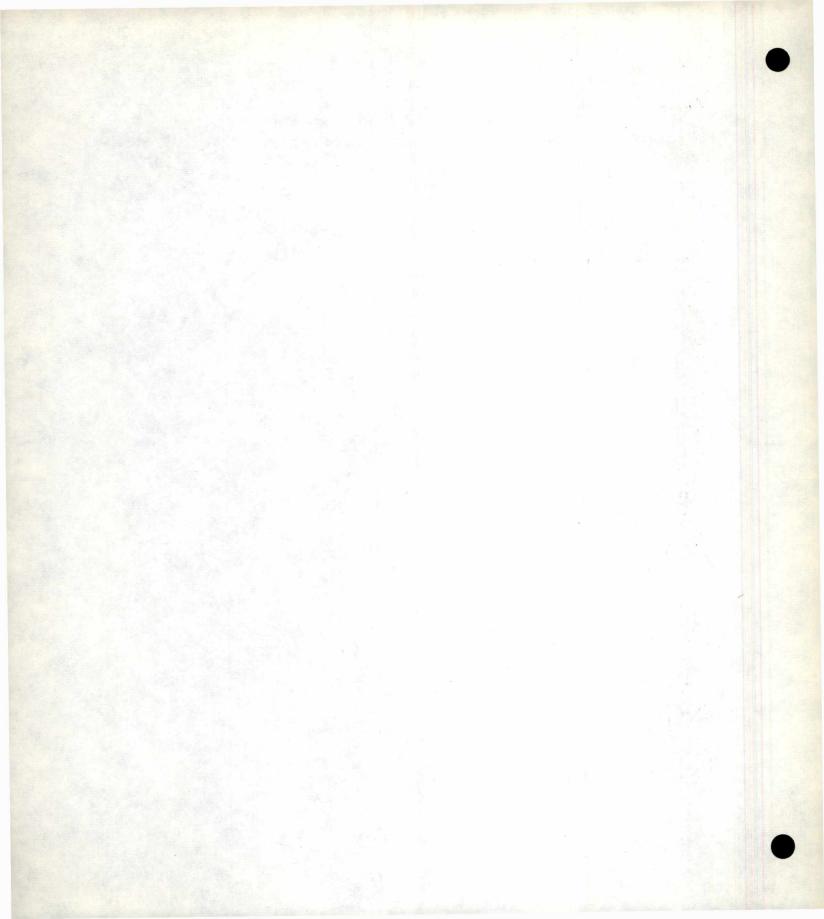
Need for dispersal of 1 Air Div. bases - nuclear difficulty re bases in France - re-examination of situation - Lessard, Hellyer - pp. 683-84



PAY AND ALLOWANCES

October 15, 1963

Mainguy Report - recommendations & implementation re pay & allowances, etc. - Matheson, CNS - p. 400.



POLITICAL

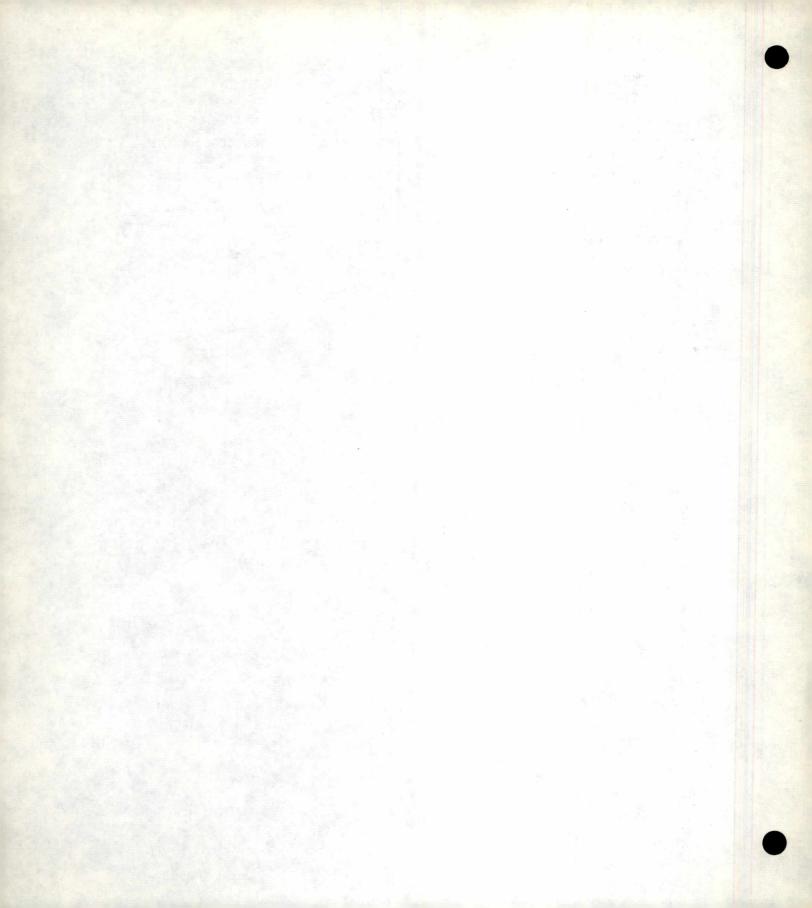
October 17, 1963

Tri-Service integration - political decisions - unification of commands - MacInnis, Simonds - pp. 456-57

Defence policy - public & political indifference re - MacLean, Simonds - pp. 476-77

Chiefs of Staff - nature of advice to Minister - military & political aspects - civilian component - Defence Cttee. - Chiefs of Staff Cttee. - Defence Council & Service Boards - Lambert, Simonds - pp. 479-80 One Chief of Staff - Chiefs of Staff access to Minister - political

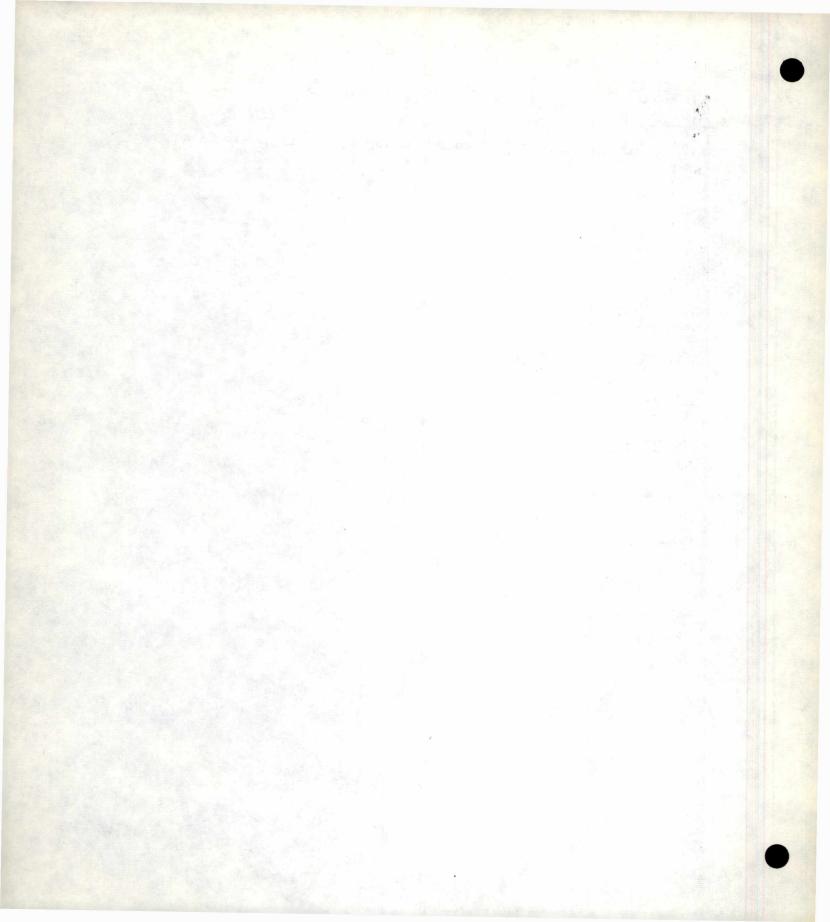
decisions, etc. - Matheson, Simonds - p. 466.



PUBLIC RELATIONS

October 17, 1963

Protest against headline in <u>Citizen</u> indicating Simonds urged Canada to acquire its own H-bomb - Simonds, Smith - p. 459



RUSSIA

June 27, 1963

Missile production not materialized - Hellyer - p. 17

July 2, 1963

Russian missile lag - Brewin, Hellyer, Baldwin - pp. 44, 46

July 9, 1963

Soviet Maritime threat - CNS - pp. 87-88 Submarine strength - CNS - p. 87 Missile - CNS - p. 87 Bomber - CNS - p. 87 Fishing fleet strength, etc. - CNS - p. 88 Merchant Marine size - CNS - p. 88 Oceanographic research - CNS - p. 88 Missile base in Cuba - CNS - p. 88 Navy - nuclear submarine threat - CNS - p. 97 Bomber threat - Churchill - p. 113 Russian ocean-going submarine threat - types, etc. - MacLean, Lambert. Churchill, CNS - pp. 113; 116-17, 121 Russian deployment of submarines in Atlantic & Pacific rather than in Arctic - CNS - pp. 115-16 Polaris vs Russian subs - relative capabilities - Smith, CNS - p. 118 Statement by U.S. Assist. Def. Sec. re comparative Soviet-NATO conventional forces strength - Brewin - p. 123

July 11, 1963

Warsaw Pact - CGS - p. 131 Land strength - CGS - pp. 131, 132, 133 Threat & capabilities - CGS - pp. 131, 132, 133, 137, 142, 144-45 Army equipped with nuclear missiles - CGS - p. 133

July 16, 1963

Soviet threat - CAS - pp. 163, 175-76, 184

Missiles & bomber - CAS - p. 163

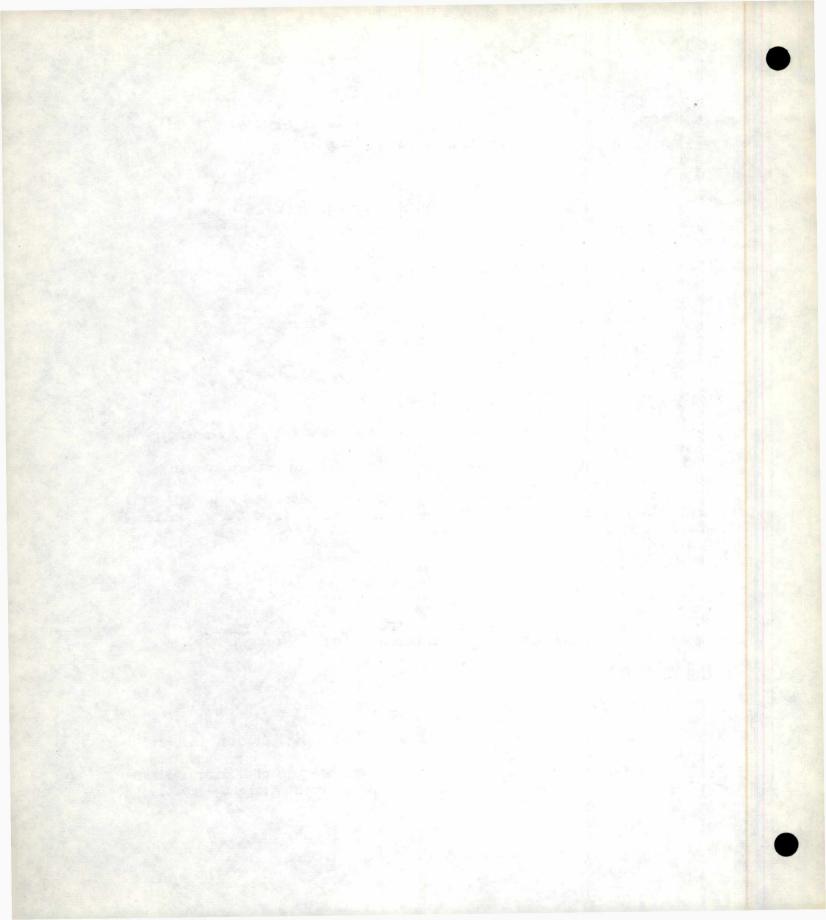
Soviet missile & bomber threat - ratio - Churchill, CAS, Brewin, Lambert,

Hellyer - pp. 187, 188, 189, 193

Soviet stand-off bombers - size of warhead - range - use of Bomarc against

Soviet Fitter aircraft - CAS, McMillan, Smith, Deachman, Hahn - pp. 188,

189, 190, 195-96.



RUSSIA - (Cont'd)

July 16. 1963 - (Cont'd)

Accuracy of Russian ICBM's - Granger, CAS - p. 189
Soviet threat vs Chinese threat - Winch, Hellyer - pp. 190-91
Comparative Soviet & U.S. ICBM threat - Smith, CAS - p. 191
Soviet threat capabilities classified - not in public interest to reveal MacLean, Hellyer - p. 191

October 8, 1963

Nuclear powered subs - Temple, CNS - p. 320 Threat of Russian surface ships - Hahn, CNS - pp. 329-30

October 10, 1963

Russian subs - speed & threat of - Plomer - p. 341 Subs - China, Russia, Egypt, Cuba - Asselin, Plomer - p. 385

October 17, 1963

Russian rocket development - military value - Smith, Simonds - p. 454
Europe can't be defended by nuclear arms - defence by conventional means potential power of Russia - defence of Europe necessity for defence of
North America - McMillan, Simonds - pp. 466-67
ICBM's - U.S. & Russian strengths re - Temple, Simonds - pp. 477-78

October 22, 1963

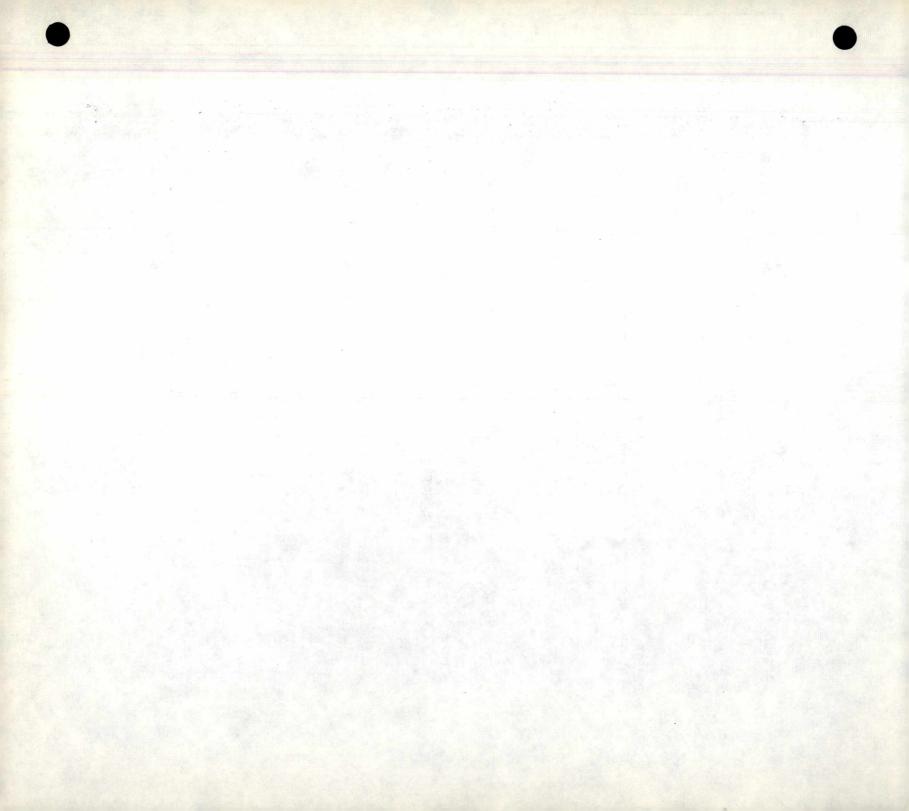
Defence of Canada-U.S. region - ICBM & bomber threats to - Nike-Zeus anti-ICBM defence - reduction of Cdn. contribution to - Russian ballistic missile submarine threat to - future Chinese sub threat - Foulkes, Laniel, Lambert - pp. 502-03, 506-07, 538, 541-42

ICBM vs bomber threat - advantage of attack with Russia - defence against - fail safety system & flexibility of bomber - Foulkes, Temple - pp. 519-20

October 24, 1963

Russian ICBM & missile sub threat vs U.S. retaliatory power - threat to NATO - deterrent - Gellner, Smith, Deachman, Granger - pp. 564-65, 571, 580-82, 584

Conventional war impossible - German & French view interested in absolute deterrence - re Greece & Turkey - Russia & U.S. would only fight nuclear war - stockpiling of nuclear weapons to over-kill capacity - Gellner, MacLean, Lambert, Deachman, Granger, Brewin - pp. 566, 567-68, 575, 577, 580-86.



RUSSIA - (Cont'd)

October 29, 1963

Bobcat - need of - weaknesses indicated by trials - decision re - purpose - spare parts re - initiation design date & subsequent tests - modifications for artillery - design changes - effectiveness - mounting - comparison to other NATO & Russian models - Lessard, CGS, Hellyer, Deachman, Smith, Hahn, Churchill - pp. 600-01, 606-09, 611-12

Russian tactical support for ground forces - airborne divisions - MacLean - p. 619

October 31, 1963

Shift from bomber to missile threat - intelligence reports re - Hahn, CAS - p. 628

Soviet development of submarine ballistic missiles - CAS - p. 629

ICBM, ballistic missile submarine & bomber threats - degree of - statement
by U.S. Def. Sec. re - hardening of sites - accuracy of - defence against Churchill, CAS, MacInnis, Lambert, Hahn, Granger, Smith - pp. 639-42

Supersonic bomber development in Russia, U.S. & U.K. - TSR-2 & TFX Granger, CAS - pp. 641-42

Effective defence against Russian surface-launching ballistic missile submarines - CAS - p. 646

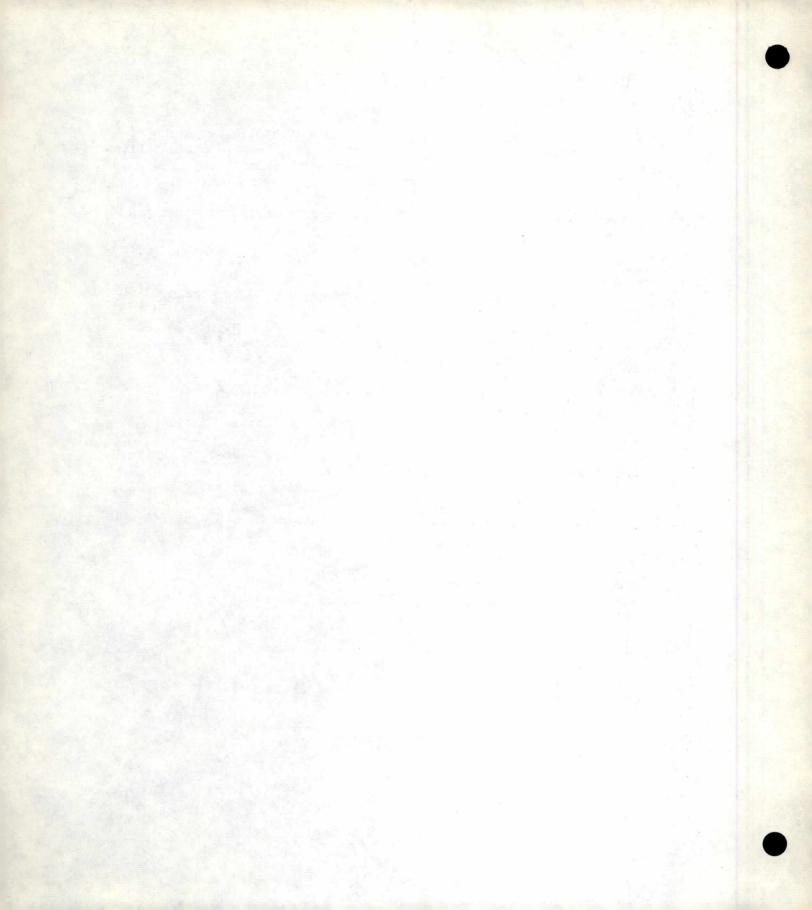
Recce. in Arctic - replacement of Lancaster - defence re - co-op with Army - Soviet submarine threat in - Matheson, CAS - p. 651

Bomber threat and role of Air Force in future - defence against ICBM - CAS, Hahn - pp. 657-58

Russian nuclear submarine capability & threat - Patterson, CAS - p. 660

November 5, 1963

Russian threat - Lessard, Hellyer - p. 683 Capability re Russian submarine threat - Lessard, Hellyer - pp. 684-85



July 11. 1963

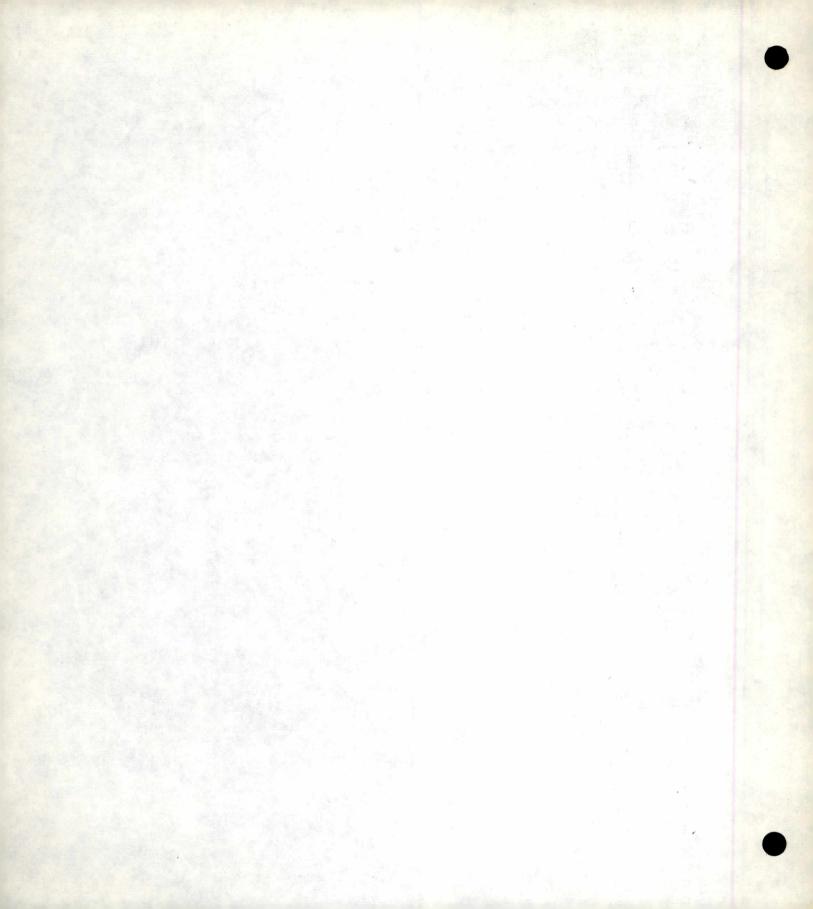
Army - assistance to civil authorities - CGS - pp. 149-151
Provincial request - CGS - p. 149
Types of assistance - CGS - pp. 149, 151
Assistance to other gov't depts - CGS - p. 149
Penitentiary commitment - CGS - pp. 149-150, 151
Avalanche control - CGS - pp. 150, 151
De-activation of dangerous explosives - CGS - pp. 150, 151
Forest firefighting - CGS - pp. 149, 150, 151
Flooding - CGS - pp. 149, 151
Army Militia - aid to civil power - CGS - p. 151

July 16, 1963

Air Transport Command - aid to civil authorities - CAS - p. 173
Search & rescue - CAS - pp. 180-181
Responsibility - CAS - p. 180
Aircraft & helicopters for - CAS - p. 181

October 31, 1963

Recce ability of Maritime Air Command & search & rescue - MacLean, CAS - pp. 646-47



SECURITY

June 27, 1963

Security clearance of Cttee members - Fairweather, Hellyer - p. 21 Releasing of info on defence of other NATO countries - Lloyd - p. 23

July 2, 1963

Intelligence - evaluation of enemy's capability - Hellyer - p. 46

July 11, 1963

Army Militia - Support of RCMP for internment & Security duties - CGS - p. 152

July 16, 1963

Soviet threat capabilities classified - not in public interest to reveal - MacLean, Hellyer, CAS - p. 191

July 25, 1963

Decisions based on intelligence - Martin - p. 235 Intelligence Cttees - Martin - pp. 235-36

October 17, 1963

Intelligence slanted to accommodate service - Simonds - p. 447 Intelligence services - liaison - Smith, Simonds - pp. 478-79

October 22, 1963

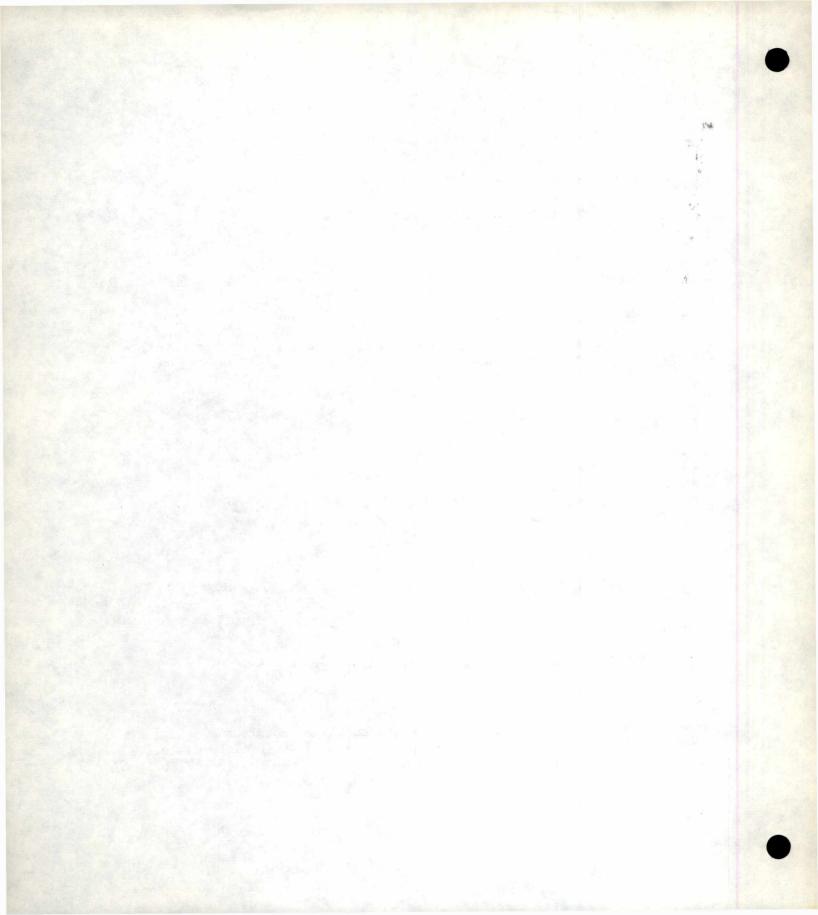
Intelligence Services of forces - function - co-op with US - Smith, Foulkes - pp. 534-35

October 24, 1963

Psychological warfare - Patterson, Gellner - p. 575

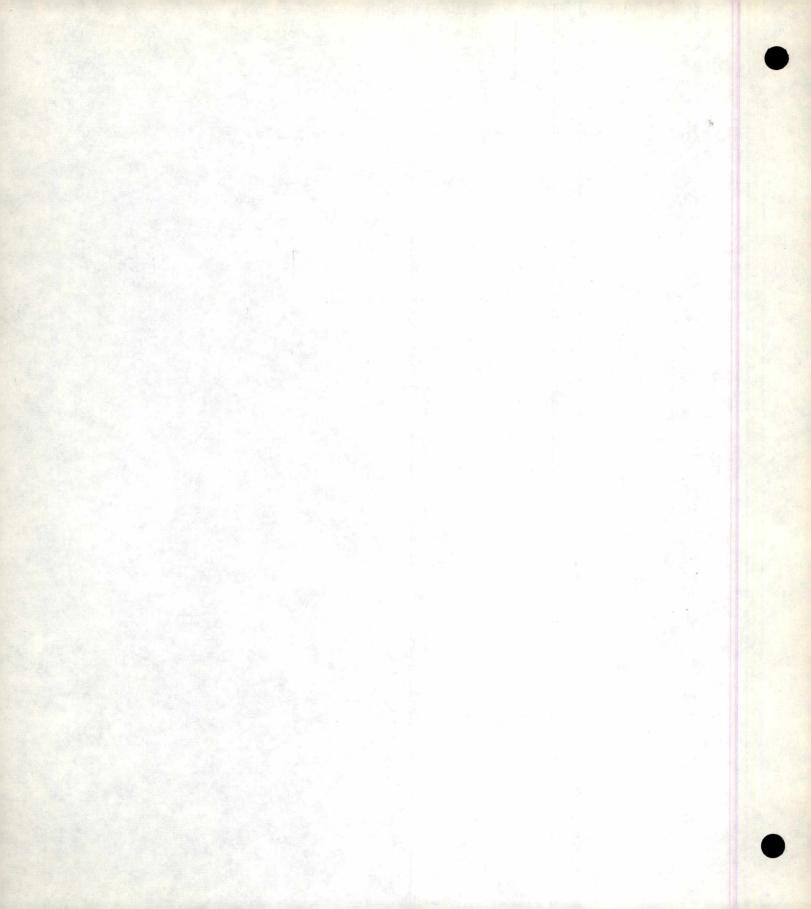
November 5, 1963

Review of policy & commitments - Navy requirements - procurement equipment programs - cancellation of frigate program - need of info. by Cttee. re - sharing of info. in camera - Winch, Hellyer, Brewin - pp. 665-67, 671, 672, 678 Preparation of Cttee. Report in camera - Winch, Smith - p. 678



July 30, 1963

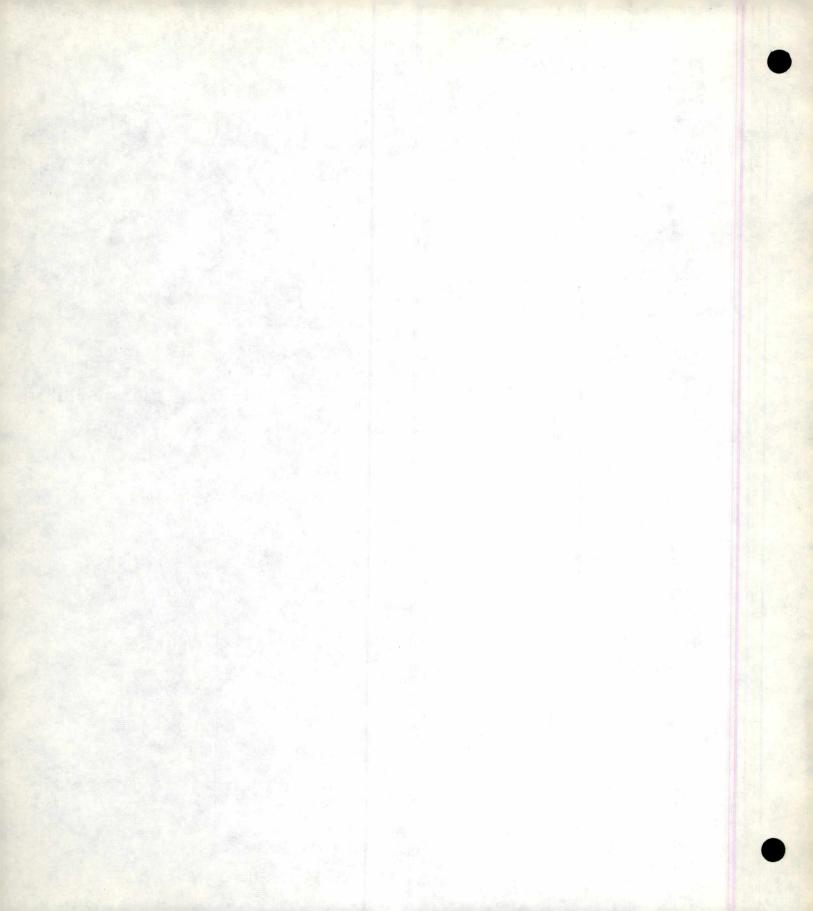
DDP - standardization of weapons in NATO - Drury - p. 276



STATUTES AND LEGAL AFFAIRS

October 15, 1963

Boards of Inquiry - court martials, etc. - Brewin, CNS - p. 408



SURVIVAL OPERATIONS

July 11. 1963

Army - curtailment of survival operations - CGS - p. 134
Army survival operations - CGS - pp. 145-46
Role of Army - CGS - pp. 145, 146
Civil Defence Order 1959 - CGS - p. 145
Warning through NORAD & DEW Line - CGS - p. 145
Nuclear detonation reporting - CGS - p. 145
---entry operations - CGS - p. 146
Militia assistance - CGS - p. 146
Civilian mobile survival columns - CGS - p. 146
Army Militia - survival operations - CGS - p. 151

July 18, 1963

DRB - Intramural - basic & applied - survival - CDRB - p. 211
Request for copies of "Nuclear Weapons Effect Booklet" - explosives in
kiloton range - Lessard, CDRB - pp. 226-27

October 17, 1963

Militia role - survival - Matheson, Simonds - pp. 444-45

October 24, 1963

Expanded compulsory civil defence - Gellner, Deachman - pp. 560, 572, 579

October 29, 1963

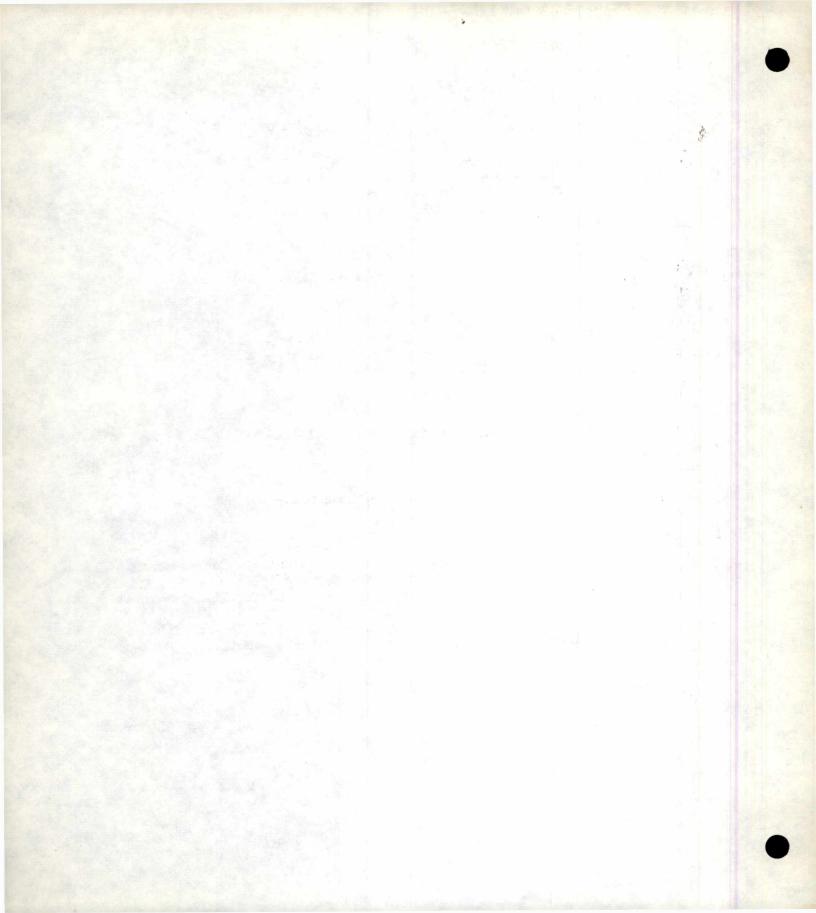
Shortage of survival ops. personnel if 4th Bde. reinforced - forces assigned to UN taken from establishments in Canada - CGS - p. 594

Survival ops. - tasks re - planning for - utilization of facilities - relation re EMO - food program re - Lessard, CGS - pp. 601-02

Army Militia - survival role - training in military field - co-op with regular force - source of officers for regular force - Matheson, CGS - pp. 609-11

October 31, 1963

Air Force Auxiliary - function - survival role re - Hahn, CAS - p. 658



TRAINING

July. 16. 1963

NORAD - air defence training - CAS - p. 166
Maritime Air Command - training - CAS - p. 171
Air Transport Command - training - CAS - p. 172
Training Command - CAS - pp. 179-80
Responsibility - CAS - p. 179
Unit location - CAS - pp. 179, 180
Types of training - CAS - p. 179
NATO training - CAS - p. 179
Number aircrew trained - CAS - p. 179
Training of Nigerians - CAS - p. 179
Procurement of Tutor jet trainer - p. 180 - CAS
Tutor Characteristics - CAS - p. 180
Groundcrew - training - CAS - p. 180
1 Air Div. - training - CAS - p. 166

October 8, 1963

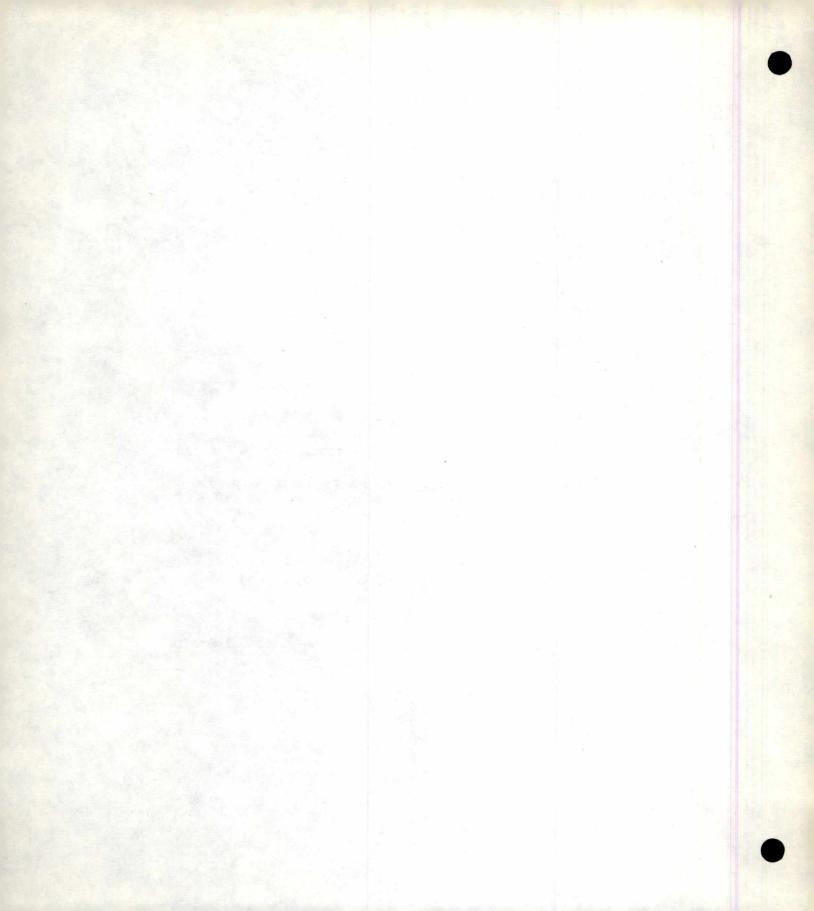
Training of personnel for frigate program - Lloyd, Hellyer, CNS - pp. 325-28
Training subs - Oberon, etc. - Hahn, CNS - pp. 329, 331
Sub training - Can.-U.S. & U.K. arrangements - commitment to U.K. re Winch, CNS - pp. 333-34
Navy personnel use & costs re training - Matheson, Plomer - p. 350
Navy - training & need for reserves - Matheson, Plomer - p. 380

October 31, 1963

Individual service training establishments - re radar & signal training - business training specialization - Smith, CAS - pp. 653-55

November 5, 1963

Cancellation of additional CF104's - purchase of two-place CF104's retraining - Hellyer - p. 667



TRI-SERVICE

October 17, 1963

Cdn. Armed Forces should be tri-service - main objective peace-keeping - integration of - Smith, Simonds, McMillan - Brewin - pp. 439-40, 441, 453
Interservice rivalries - Winch, Simonds - p. 441
Tri-service co-ordinated force similar to U.S. Marine Corps - Simonds - p. 442
Unification of command - training for - at senior ranks - Smith, Simonds - p. 455

Tri-service integration - political decisions - unification of commands - MacInnis, Simonds - pp. 456-57

Tri-service college training - tri-service integration - Groos, Simonds - pp. 468, 469

October 22, 1963

Amalgamation of Services - attempts by Mr. Claxton - MacRae, Foulkes - p. 508
Integration of Services - establishment of Defence Research Board for
integration of research - defence college for tri-service senior officer
training - interruption by Korean War and establishment of CCOS - future
plans - interservice transfer of personnel - Winch, Foulkes - pp. 522-25
Medical services integration - McMillan, Foulkes - pp. 527-28
Integration of civilian personnel employed by Services - Smith, Foulkes p. 535

October 24, 1963

Unification of Services at operational level not possible because of specialization - possible in support & supply services & H.Q. level - U.S. & U.K. efforts re - Gellner - pp. 573-74

October 29, 1963

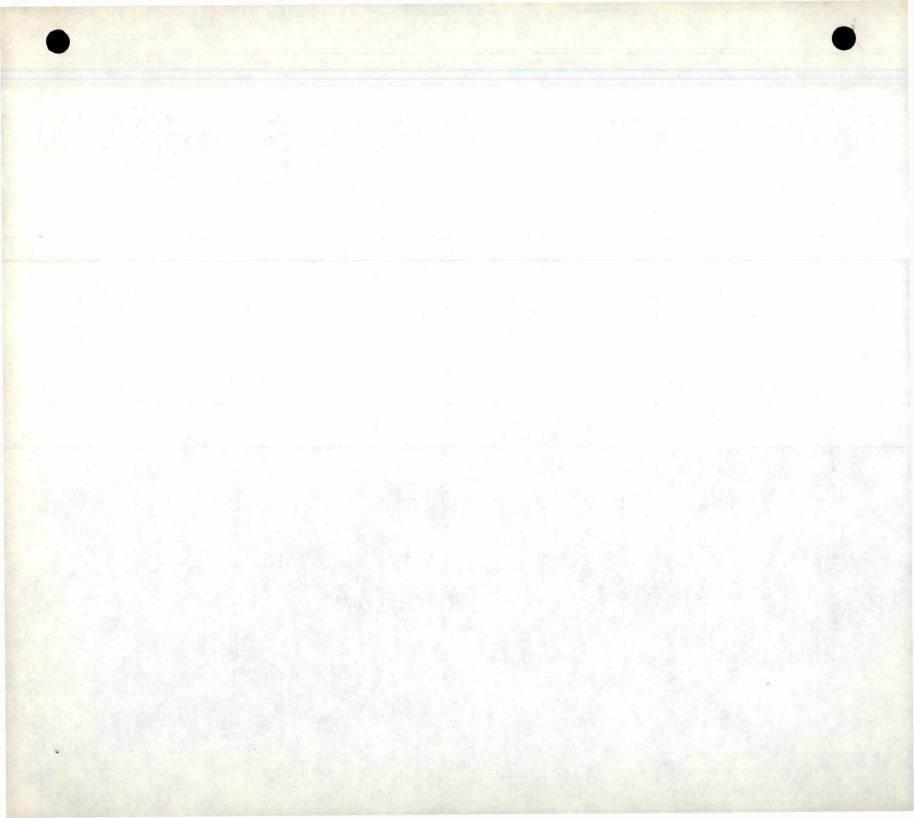
Integration of Services - existent commands - difficulties re NATO commands, SACIANT, etc. - Winch, CGS - p. 614

Unification of Chaplain & Medical Services - wiped out duplication - additional book work - integration re hospitals - Winch, CG3, McMillan - pp. 616, 617, 618

Integration of Chiefs of Staff, medical services & chaplain services resulted in increase of higher ranks - Groos, CGS - p. 618

Unification of ordnance & supply services - procurement of FN rifle - Air Force procurement of helicopters - food etc. - co-op with Navy & Air Force - common supply service - comparison to U.K. & U.S. services - function of D.M. & scientific advisers re - Winch, CGS, Deachman - pp. 616-17

Mobility of Army - ship transport to disappear with heavy lift aircraft - co-op with RCAF - efficient if done on tri-service setup - Winch, CGS - pp. 614-15



TRI-SERVICE - (Cont'd)

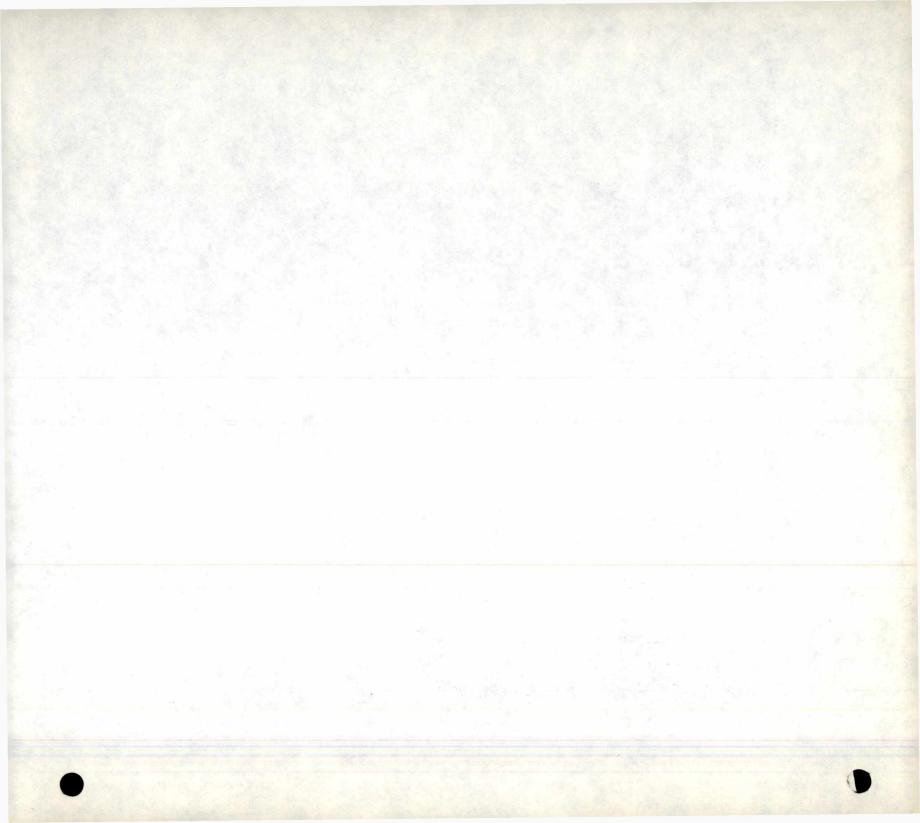
October 31, 1963

Integration - increase of personnel & costs - reduction after shakedown, i.e., U.K. - studies re - Joint Staff example of integration - Lambert, CAS - pp. 655-56

Tri-Service Equivalent Board - economy re - Lambert, CAS - p. 656
Integration of Services - advantages & disadvantages - joint H.Q. staff present co-op of Services re - fields in which progress made - Air Force
recommendations to Minister re - uniform re - Lessard, CAS - pp. 658-60

November 5, 1963

Integration of Services - Glassco Commission suggestions re - Hellyer - p. 667



TRUCE TEAMS

June 27, 1963

Contribution to UNTSO - Hellyer - p. 18
UNTSO - function - Hellyer - p. 18
Military Observer Group in India & Pakistan - service officers in - p. 19 - Hellyer
Indo-China Truce Commission - personnel in - p. 19 - Hellyer
Battalion for in Canada - Hellyer - p. 19

July 11, 1963

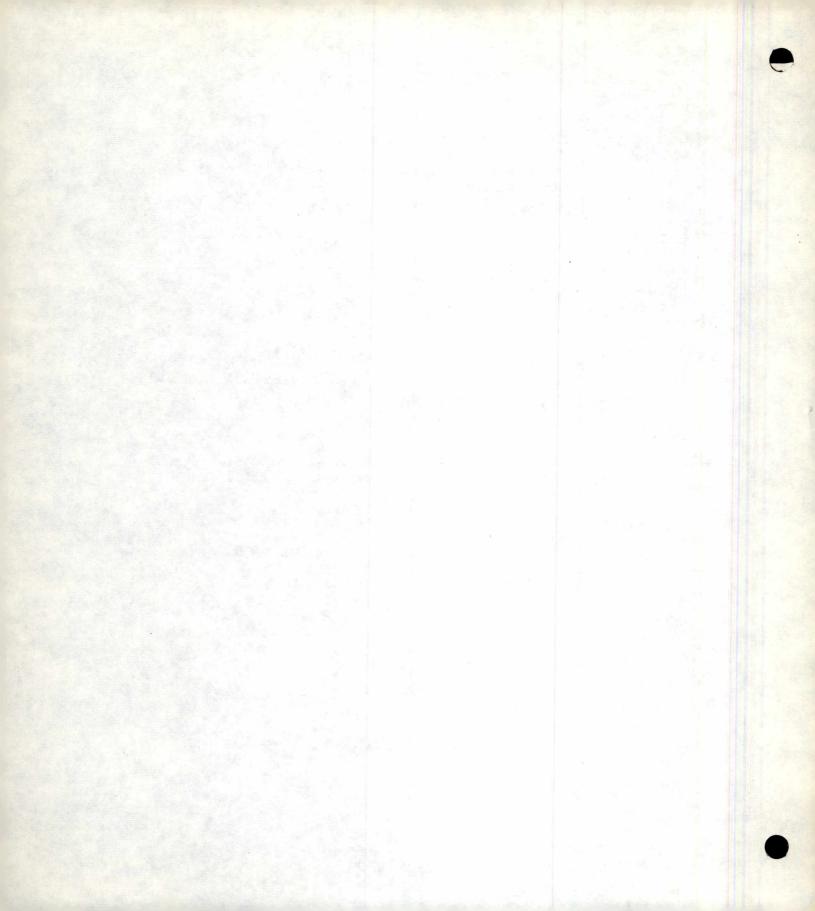
Viet Nam & Laos Truce Teams - composition - CGS - p. 149
Palestine - composition - CGS - p. 149
Kashmir - composition - CGS - p. 149
Korea - composition - CGS - p. 149

October 17, 1963

Peace-keeping operations - schedule of - divided between NATO & U.N. - Matheson, Simonds - pp. 464-66

October 22, 1963

U.N. truce & peace-keeping activities - costs re - reimbursement by U.N. - not necessary to withdraw from NATO to carry out U.N. activities - Matheson, Foulkes - pp. 532-33



U.K. ARMED FORCES

October 10, 1963

Frigates - function & capability - costs - comparison to U.S. & U.K. & NATO forces & Mackenzie Class vessel - speed - troop accommodation - purpose - helicopters for - Asselin, Matheson, Plomer, Smith, Churchill, Lloyd, Granger, Deachman - pp. 250-51-52, 359-60, 361, 365, 376-79, 380, 382-83, 384, 385-86-87.

Navy - promotions & grievances - poor morale - comparison with U.S. & U.K. - Lloyd, Brewin, Plomer, Fairweather, Hahn, MacInnis - pp. 354, 363, 367, 368, 369, 370, 374, 375.

October 15, 1963

Development of 3.70 AA gun - 5.54 gun & surface-to-air missiles - cost - use by RN & USN - MacRae, CNS, Winch - pp. 412-13

October 24. 1963

Unification of Services at operational level not possible because of specialization - possible in support & supply services & H.Q. level - U.S. & U.K. efforts re - Gellner - pp. 573-74

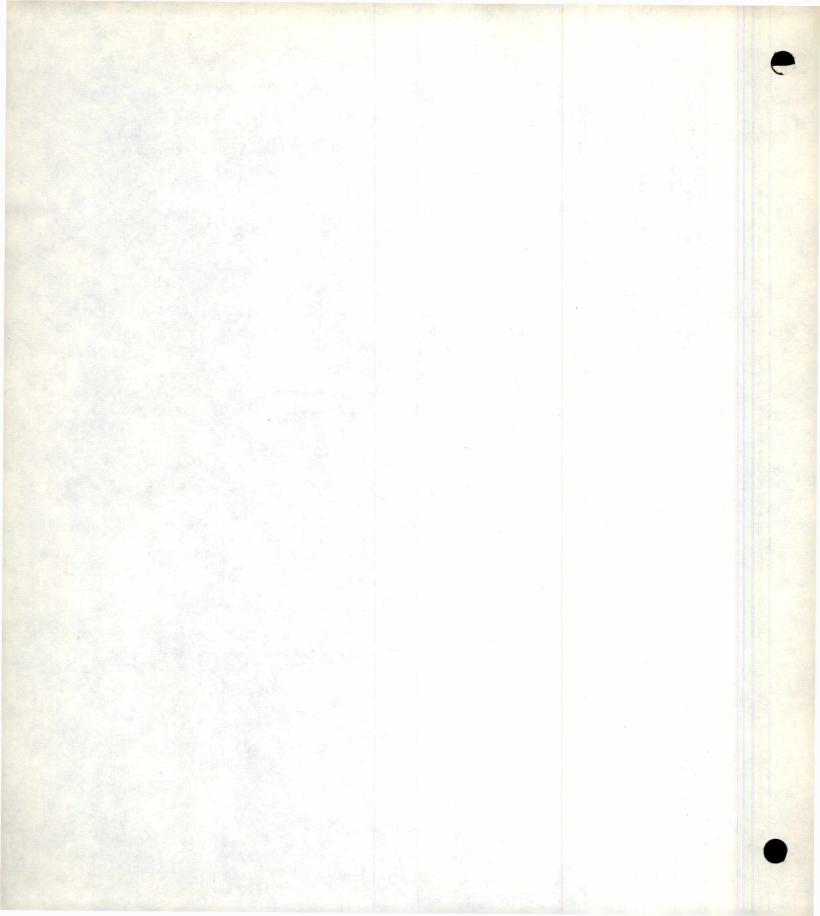
October 29, 1963

Design merchant ships for military convoy use - U.K. & U.S. - Smith, CGS - p.599

Unification of ordnance & supply services - procurement of FN rifle - Air Force procurement of helicopters - food, etc. - co-op with Navy & Air Force - common supply service - comparison to U.K. & U.S. services - Winch, CGS, Deachman - pp. 616-17

October 31, 1963

Integration - increase of personnel & costs - reduction after shakedown, i.e., U.K. - studies re - joint staff example of integration - Lambert, CAS - pp. 655-56



U.K. DEFT OF POLICY

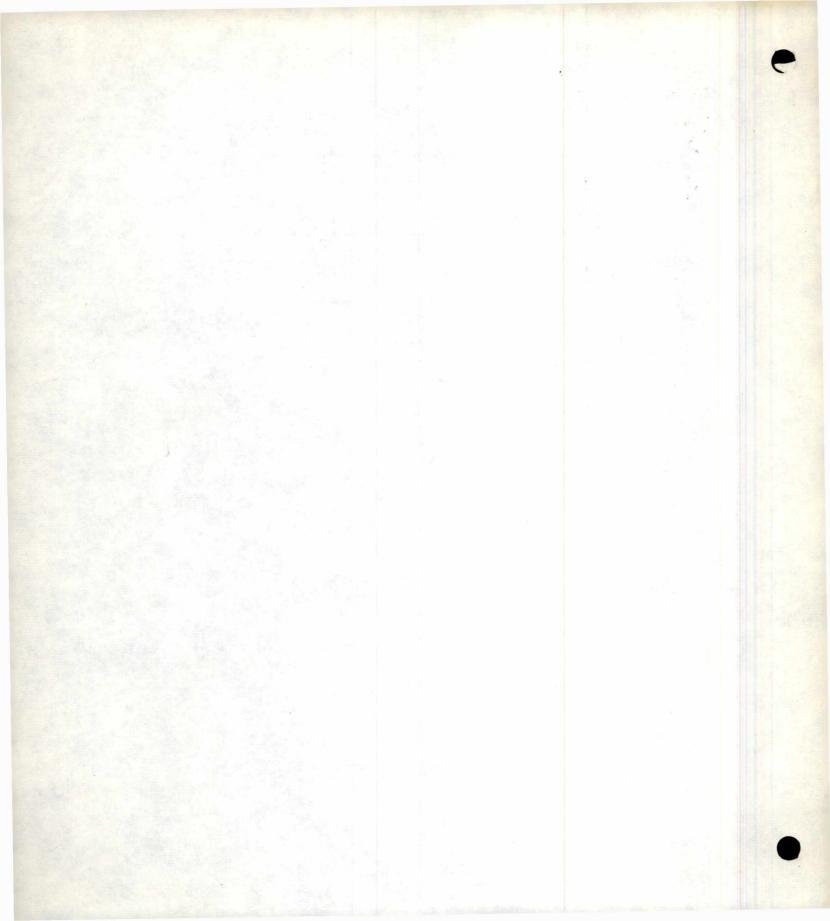
October 22, 1963

Withdrawal of Brigade to reserve position - British attitude - German acceptance - Colnnis, Foulkes - pp. 515, 516, 517

October 31, 1963

Superson bomber development in Russia, U.S. & U.K. - TSR-2 & TFX - Granger, CAS - pp. 641-42

Deterrent - value of tactical forces in Europe & strategic forces in U.S. & U.K. re escalation into nuclear war - Churchill, CAS - pp. 644-45



UNITED NATIONS

June 27, 1963

Contribution to UNTSO - Hellyer - p. 18

UNTSO - function - Hellyer - p. 18

Military Observer Group in India & Pakistan - service officers in - Hellyer - p. 19

Indo-China Truce Commission - personnel in - Hellyer - p. 19

Battalion for in Canada - Hellyer - p. 19

July 11, 1963

Army - U.N. operations - CGS - pp. 146-49 Utilization of specialists - CGS - pp. 146-47 Rotation & tours of personnel - CGS - p. 147 Standby battalion (R22eR) - CGS - p. 147 3 CB for - CGS - p. 147 UNEF duties & composition - CGS - p. 147 UNCF (ONUC) - CGS - p. 147 Composition - CGS - p. 148 Reduction of - CGS - pp. 147-48 Viet Nam & Laos Truce Teams - composition - CGS - p. 149 Palestine - composition - CGS - p. 149 Kashmir - composition - CGS - p. 149 Korea - composition - CGS - p. 149 Training assistance to Armed Forces of Ghana, Nigeria, Trinidad & Tobago -CGS - p. 149 Army Militia - personnel for U.N. operations - CGS - p. 151

July 16, 1963

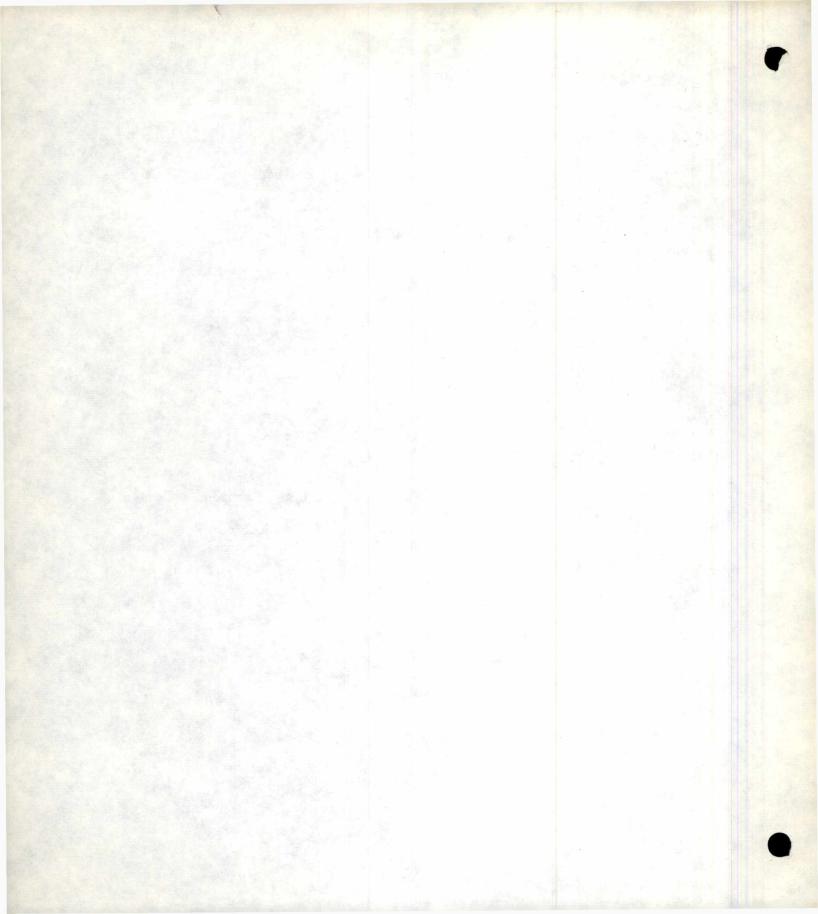
Air Transport Command - U.N. operations - CAS - pp. 172-73

July 25, 1963

Cdn. contributions to U.N. actions - DND, Ex. Aff. & U.N. co-op re - Martin - pp. 238, 239, 241, 242

October 15, 1963

Naval role in NATO & U.N. commitments - Matheson, CNS - pp. 424-25



UNITED NATIONS - (Cont'd)

October 17, 1963

Cdn. Armed Forces should be Tri-Service - main objective peace-keeping - integration of - Smith, Simonds, McMillan - pp. 439-40, 441 Cdn. contribution to U.N. - Army role - Lessard, Simonds - pp. 450-51 Peace-keeping operations - schedule of - divided between NATO & U.N. - Matheson, Simonds - pp. 464-66

October 22, 1963

U.N. peace-keeping activities - Cdn. contributions to re UNEF, UNCF - Foulkes - pp. 504-05

Placing of Cdn. forces at U.N. disposal unsound policy - Foulkes - p. 505

Mobile ready reserve for NATO & U.N. - Foulkes - p. 507

Commitments to U.N. & UNEF - Cdn. control lost - UNCF, some forces mishandled - Churchill, Laniel - pp. 530-31, 538

U.N. truce & peace-keeping activities - costs re - reimbursement by U.N. - not necessary to withdraw from NATO to carry out U.N. activities - Foulkes - pp. 532-33

October 24, 1963

Cdn. forces - re peace-keeping roles - U.S. Marine Corps type service - standby battalion no value - administrative personnel need - Gellner - pp. 560-61, 573

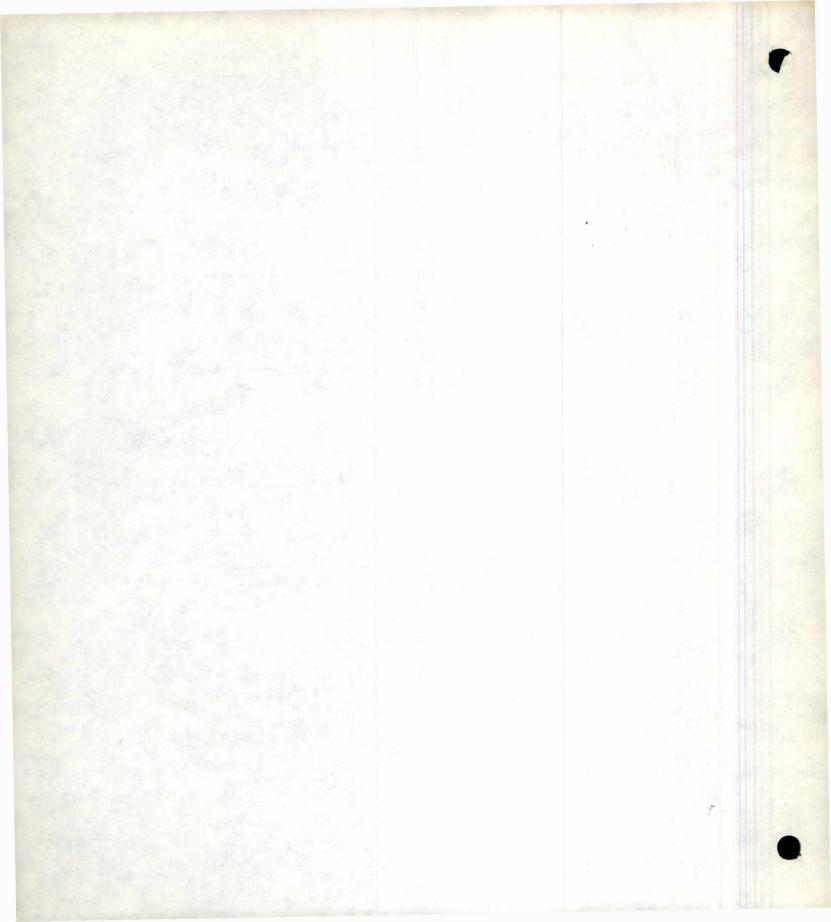
October 29, 1963

Shortage of survival operations personnel if 4th Brigade reinforced - forces assigned to U.N. taken from establishments in Canada - CGS - p. 594

October 31, 1963

Use of aircraft for U.N. - Otter, Cariboo - need of more Cariboo - Smith, CAS - pp. 637-38

Roles re Canada-U.S. region, NATO & U.N. - budget limitations re - use of obsolescent equipment, etc. - Patterson, CAS - pp. 661-62



UNITED NATIONS CONGO FORCE

June 27, 1963

Contribution of signal unit - Hellyer - p. 18
RCAF mirlift for - Hellyer - p. 18
Personnel at - Hellyer - p. 18

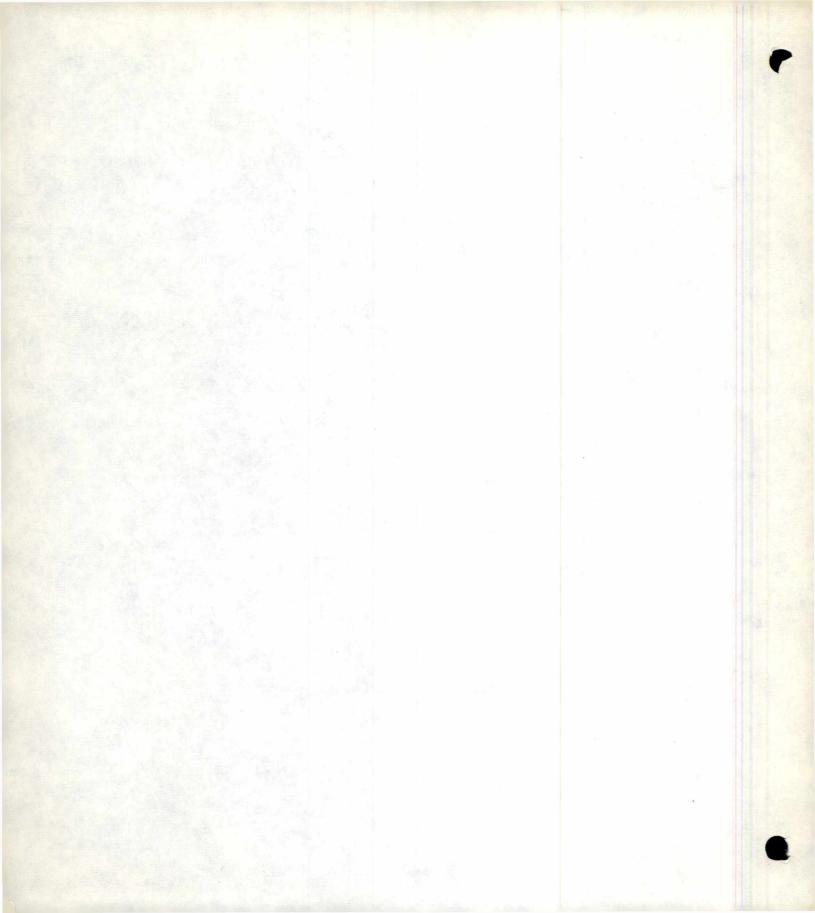
July 11. 1963

Army - U.M. operations - UNCF (ONUC) - CGS - p. 147 - composition - CGS - p. 148 - reduction of - CGS - pp. 147-48

October 22, 1963

U.N. peace-keeping activities - Cdn. contributions to re UNEF, UNCF - Foulkes - pp. 504-05

Commitments to U.N. & UNEF - Cdn. control lost - UNCF, some forces mishandled - Churchill, Foulkes, Laniel - pp. 530-31, 538



UNITED NATIONS EMERGENCY FORCE

June 27, 1963

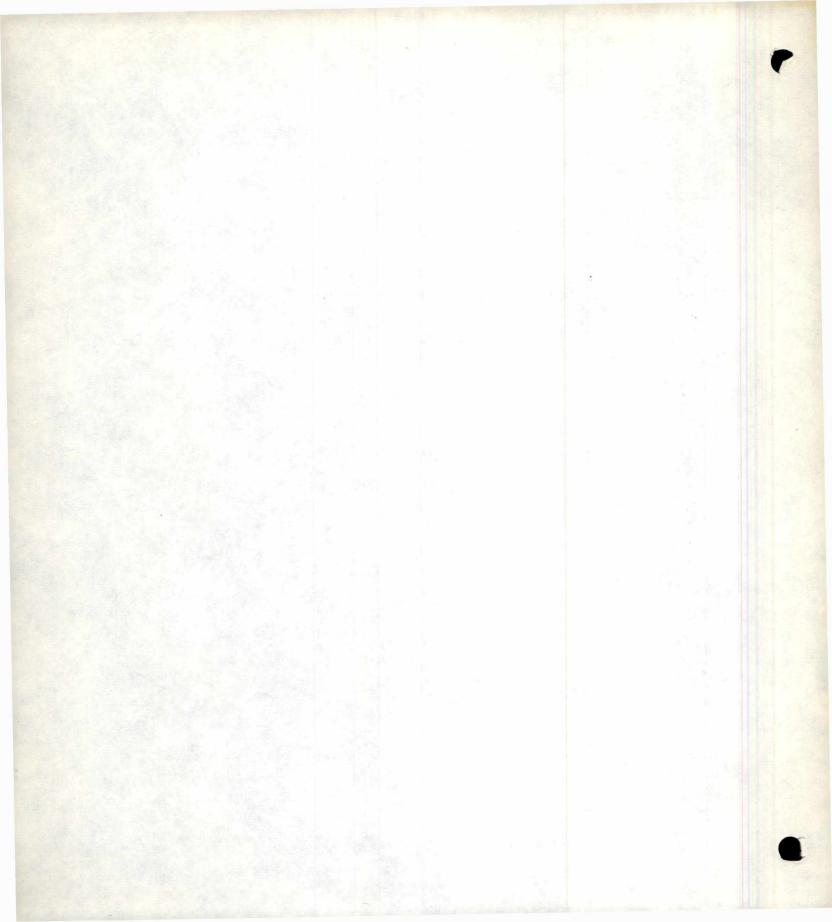
Contribution to - Hellyer - p. 18
Withdrawals from to send to Yemen - Hellyer - p. 18

July 11, 1963

Army - U. .. operations - UNEF duties & composition - CGS - p. 147

October 22, 1963

U.N. peace-keeping activities - Cdn. contributions to re UNEF, UNCF - Foulkes - pp. 504-05
Offer of Queen's Own Regiment to UNEF - Lessard, Foulkes - p. 518
Commitments to UN & UNEF - Cdn. control lost - UNCF, some forces mishandled - Churchill, Foulkes, Laniel - pp. 530-31, 538



U.S. ARMED PORCES

July 4, 1963

U.S. sqdns. withdrawn from France - CCOS, Martineau - p. 67

July 9, 1963

Polaris vs Russian subs - relative capabilities - Smith, CNS - p. 118

July 16, 1963

Comparative Soviet & U.S. ICBM threat - Smith, CAS - p. 191

October 8, 1963

Speed of U.S. nuclear submarine - Temple, CNS - p. 319
Proposed frigates - speed of & comparison to U.S. - Temple, CNS, Hahn - pp. 319-20, 330
Cdn. & U.S. development of hydrofoil - Smith, CNS, Matheson, Granger - pp. 323, 333, 334-35

October 10, 1963

Frigates - function & capability - costs - comparison to U.S. & U.K. & NATO forces & Mackenzie Class vessel - speed - troop accommodation - purpose - helicopters for - Asselin, Matheson, Plomer, Smith, Churchill, Lloyd, Granger, Deachman - pp. 350-51-52, 359-60, 361, 365, 376-79, 380, 382-83, 384, 385-86-87

Navy - promotions & grievances - poor morale - comparison with USN & UK - Lloyd, Brewin, Plomer, Fairweather, Hahn, MacInnis - pp. 354, 363, 367-68, 369, 370, 374, 375.

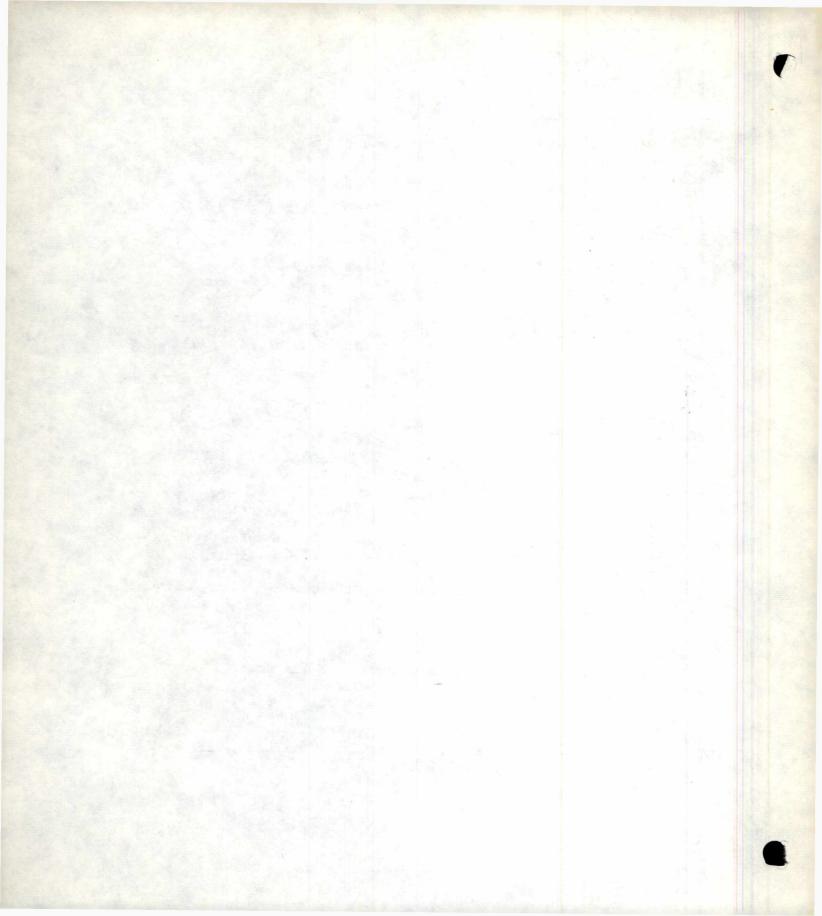
Navy - comparison of Cdn. to US & NATO ship performance - Plomer, Churchill - p. 383

October 15. 1963

Development of 3.70 AA gun - 5.54 gun & surface-to-air missiles - cost - use by RN & USN - MacRae, CNS, Winch - pp. 412-13

October 17, 1963

Mobile force - composition - modeled after U.S. Marine Corps - armament re - air transport of - Temple, Simonds - p. 477



U.S. ARMED TURCES - (Cont'd)

October 24. 1963

Unification of Services at operational level not possible because of similarition - possible in support & supply services & H.Q. level - U.S. & U.K. efforts re - Gellner - pp. 573-74

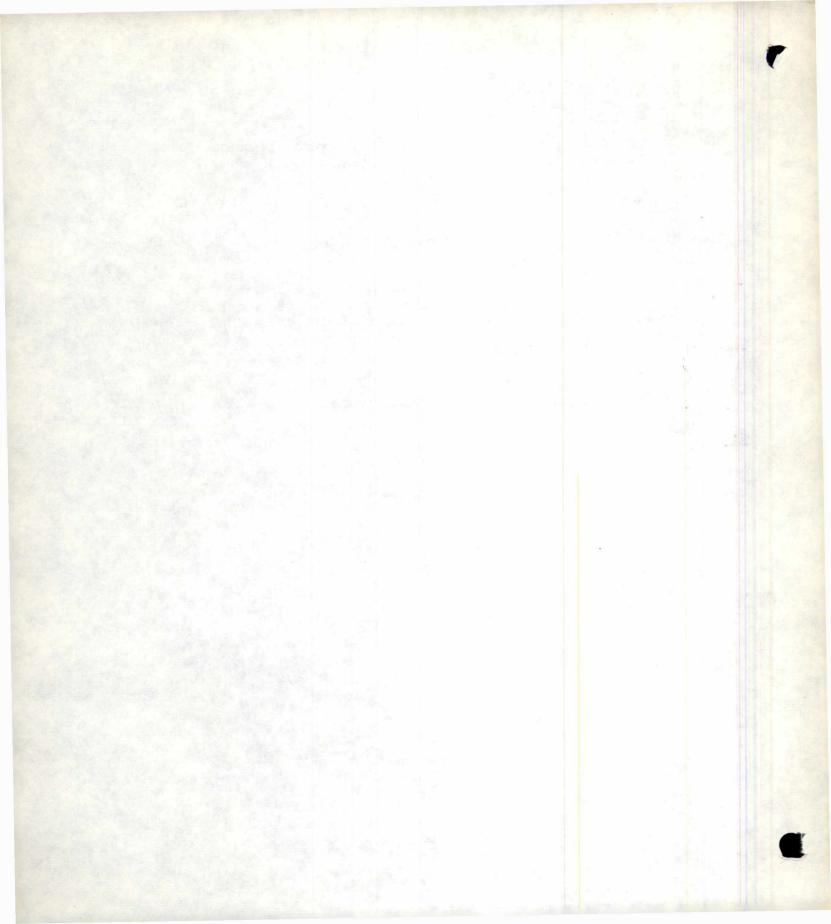
October 29, 1963

Design merchant ships for military convoy use - U.K. & U.S. - Smith, CGS - p. 599

Unification of ordnance & supply services - procurement of FN rifle - Air Force procurement of helicopters - food, etc. - co-op with Navy and Air Force - common supply service - comparison to U.K. & U.S. services - function of D.M. and scientific advisers re - Winch, CGS, Deachman - pp. 616-17

October 31, 1963

U.S. tests re nuclear vs conventional anti-submarine arms - McMillan, CAS - p. 648



U.S. DEFENCE POLICY

June 27, 1963

Conventional Forces - need & increase - statement of U.S. Def. Min. - Hellyer - pp. 15, 16

Request for cost of Bomarc program as indicated by U.S. Def. Sec. - Churchill - p. 23

July 2, 1963

U.S. decision not to produce anymore FlOl's - Smith, Hellyer - p. 52

July 4. 1963

U.S. authority re use of nuclear weapons - Hellyer, Lambert - p. 72

July 9, 1963

Increased U.S. construction of destroyer escorts - Smith, CNS - p. 118 Statement by U.S. Assist. Def. Sec. re comparative Soviet-NATO conventional forces strength - Brewin - p. 123

October 17, 1963

Bomarc obsolete - U.S. Def. Sec. statement - Brewin, Simonds - p. 451 ICBM's - U.S. & Russian strengths re - Temple, Simonds - pp. 477-78

October 22, 1963

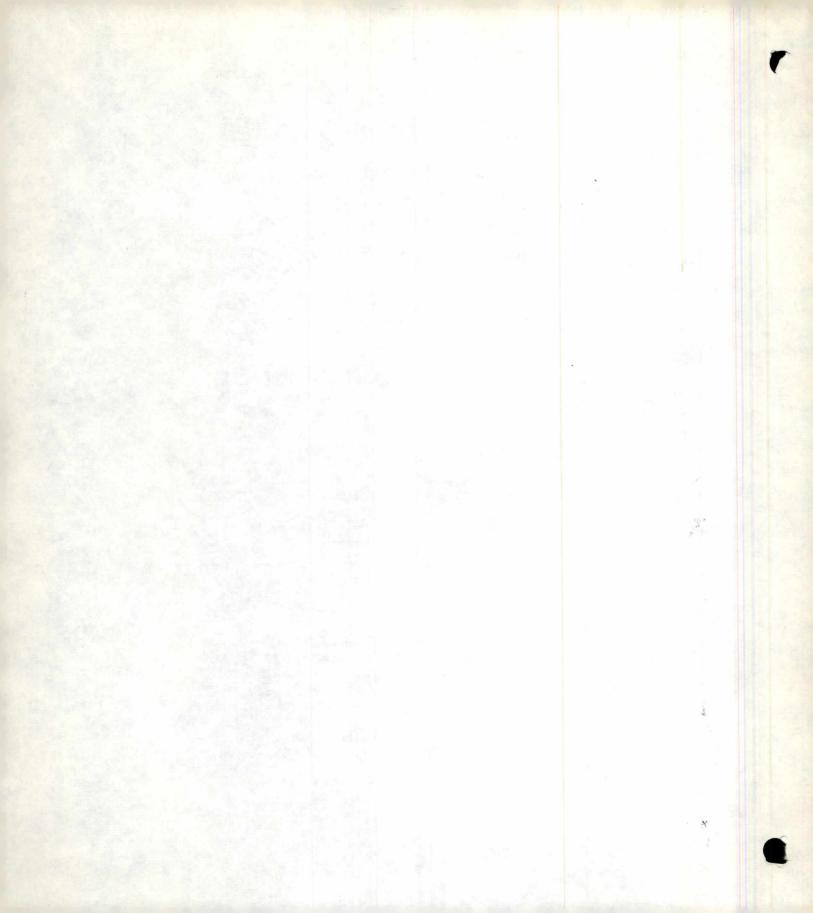
Control over nuclear arms in Europe - U.S. position re - Lessard, Foulkes - p. 516

October 24, 1963

Russian TOBM & missile sub threat vs U.S. retaliatory power - threat to NATO - deterrent - Gellner, Smith, Deachman, Granger - pp. 564-65, 571, 530-82, 584

U.S. control of nuclear weapons - Gellner - pp. 565-66

Conventional war impossible - German & French view interested in absolute deterrence - re Greece & Turkey - Russia & U.S. would only fight nuclear war - stockpiling of nuclear weapons to over-kill capacity - Gellner, MacLean, Lambert, Deachman, Granger, Brewin - pp. 566, 567-68, 575, 577, 580-86.



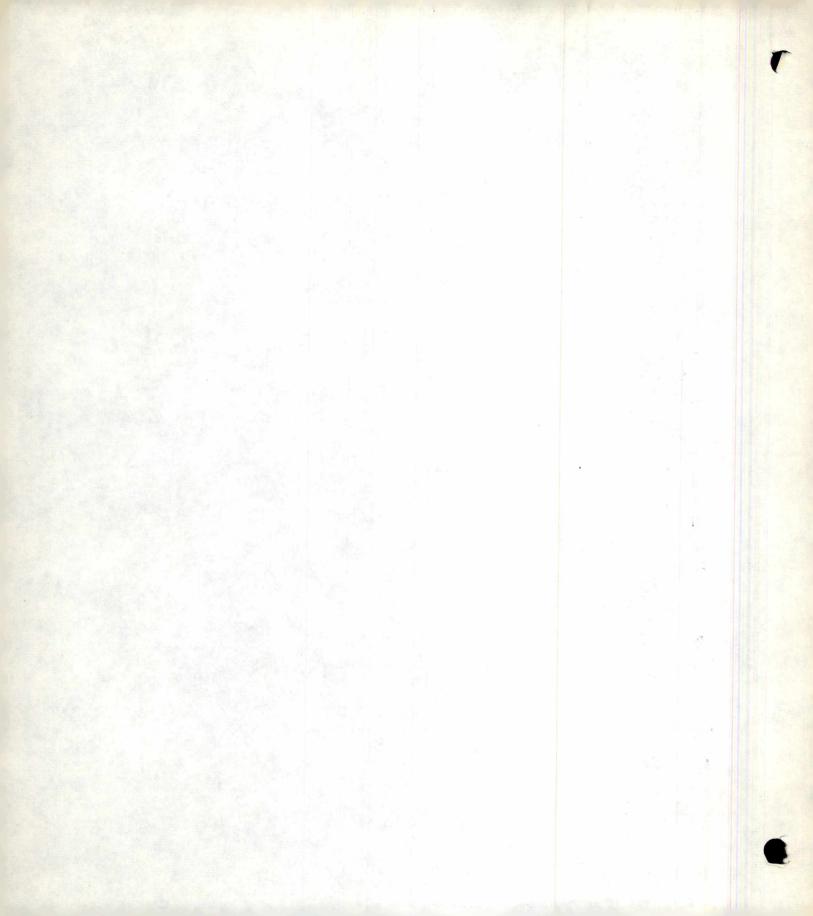
U.S. DEFRACE POLICY - (Cont'd)

October 31, 1963

ICBM, ballistic missile submarine & bomber threats - degree of - statement by U.S. Def. Sec. re - hardening of sites - accuracy of - defence against - Churchill, CAS, MacInnis, Lambert, Hahn, Granger, Smith pp. 639-42

Supersonic bomber development in Russia, U.S. & U.K. - TSR-2 & TFX - Granger, CAS - pp. 641-42

Deterrent - Lue of tactical forces in Europe & strategic forces in U.S. & U.K. re - escalation into nuclear war - Churchill, CAS - pp. 644-45



June 27, 1963

US Gen. Lemmitzer's visit to Canada - Hellyer - p. 20

Jul - 2 - 1963

Bringing RCAF & USAF officers before cttee for briefing on Bomarc and visit to NORAD - Winch, Hellyer, Hahn - pp. 49-50, 53

July 4, 1963

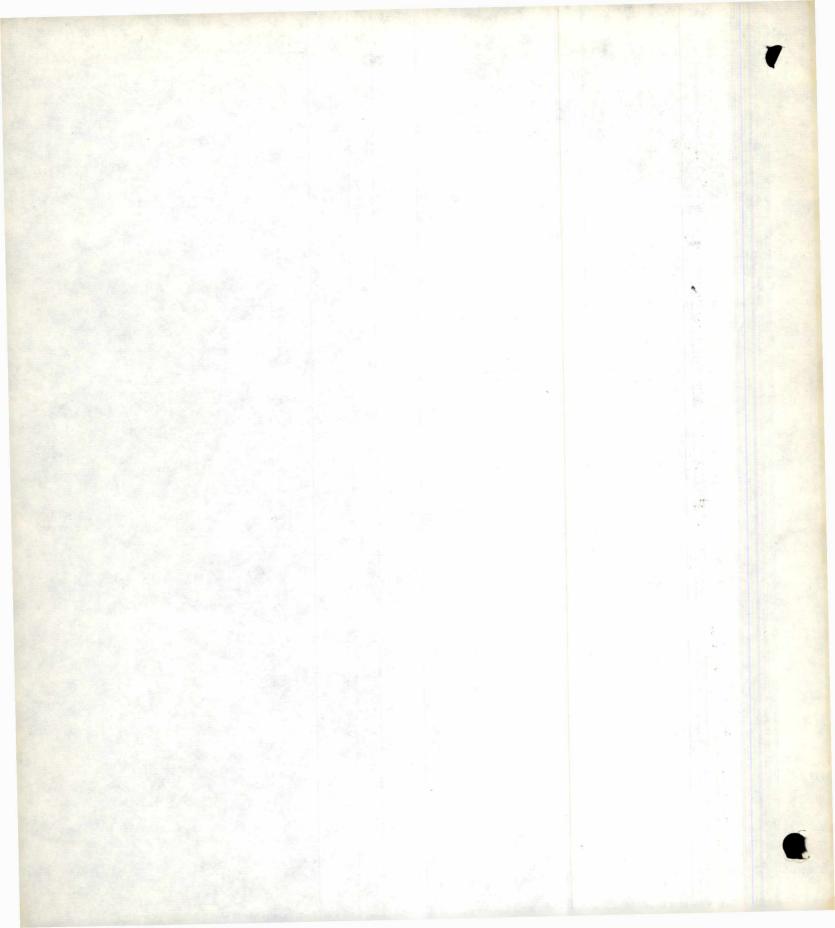
Visit to NORAD - Hellyer - pp, 76, 77

July 9, 1963

Navy - visits by RCN ships - CNS - p. 90

July 18, 1963

Visit to NORAD - pp. 201, 203



WEAPOLS ALL THUTPMENT

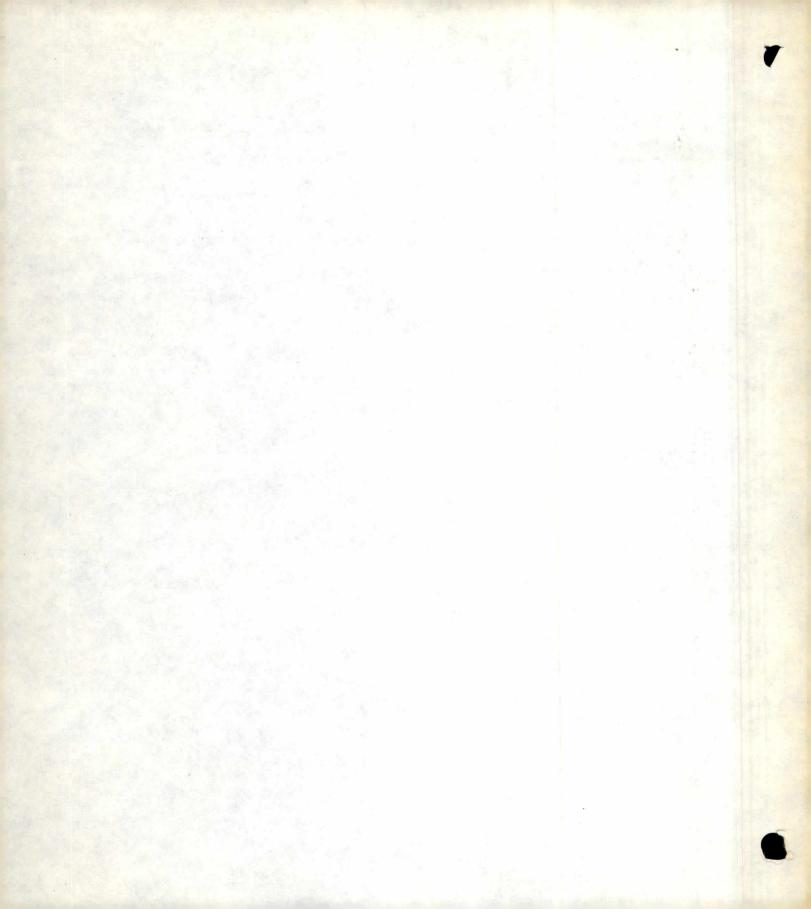
July 11, 1963

Army - Division re-inforcements - stockpiling of equipment in Europe - CGS - p. 135

Army - acquisition & testing of SSN & ENTAC - CGS - pp. 137, 138

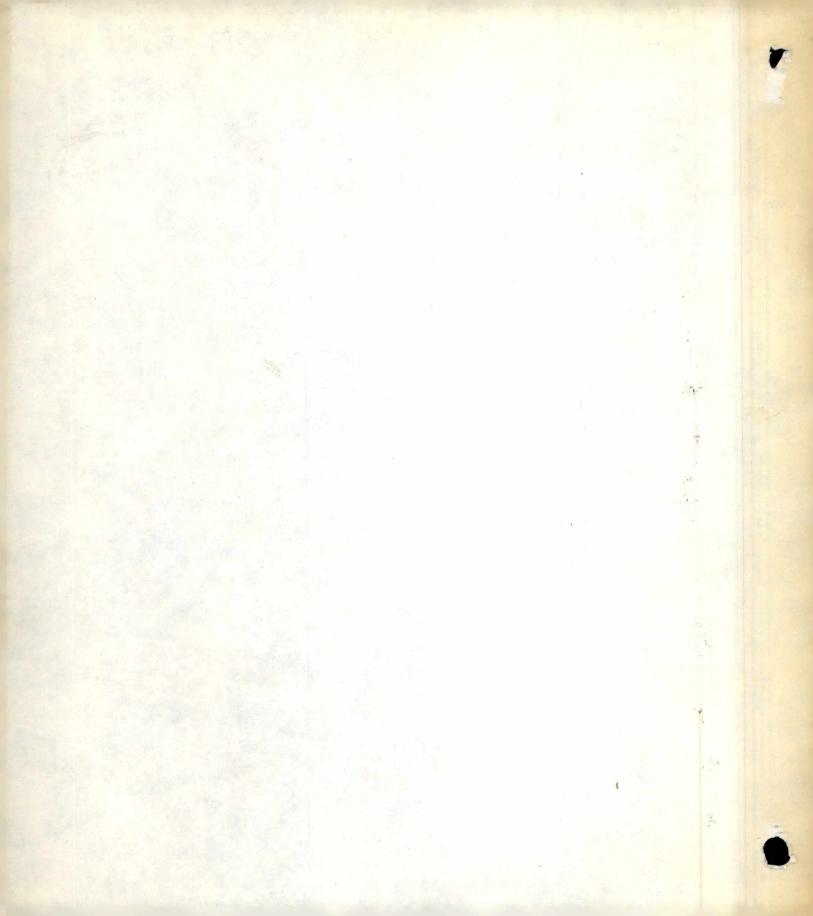
October 29, 1963

SS11 guided missile weapon & medium-range anti-tank weapons - range, etc. - Brewin, CGS - pp. 593-94



APRY Militar - Role of CWAC - CGS - p. 151

SEDIA IS & SNEWOM



Redi Binder
No. GW1604-H-4
Made In
All Sizes And Grades



309 Athlone Ave., Ottawa

