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ROYAL CANADIAN AIR FORCE

AIR MEMBER FOR TECHNICAL SERVICES

CHIEF OF AERONAUTICAL ENGINEERING

REPORT NO. 6

ARROW WEAPON SYSTEM

COMMITTEE STRUCTURE

ROYAL CANADIAN AIR FORCE
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PREFACE

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ARROW WEAPON SYSTEM

COMMITTEE STRUCTURE AND STAFF BRIEFING PROCEDURES

INTRODUCTION

1 The formation of the Assistant for the Arrow Weapon System Directorate on the 21 Oct 57, and the promulgation of the co-ordinating/associate contractor concept on the 1 Feb 58, has necessitated the re-organization of the various steering, co-ordinating and member sub-committees to phase in with the responsibilities of the design and co-ordination authorities both RCAF and contractor. This report explains the committee structure that will supersede the present air-frame, engine, and electronic steering and co-ordinating committees on the Arrow.

2 A knowledge of the basic, subsidiary, and co-ordinated projects of the Arrow Weapon System and the corresponding design authorities and their terms of reference is assumed.

3 The Arrow Weapon System committees are broken down into the following categories:

- (a) Programming Committee ✓
- (b) Advisory Committees
- (c) Associate Committees

PROGRAMMING COMMITTEE

4 This committee is the senior planning committee and as such will review, and amend as necessary, the Master Schedule and initiate action in program problem areas. The Master Schedule will be produced by the co-ordinating contractor and eventually contain the complete scheduling information for all components and items from all four contractors including engineering orders, aircraft system trainers, personnel requirements data, ground support equipment, data for the flight simulator, delivery of systems, components, and portions thereof, writing and review of Model and other specifications, delivery of aircraft, and any other primary service, component, or function necessary for the successful evolution of the weapon system.

5 The co-ordinating contractor in conjunction with the associate contractors will do the day-to-day planning of the Master Schedule. The Programming Committee will function as the "controlling authority" in relation to the co-ordinating contractor action and as such will meet every four months to consider the Master Schedule status and discuss the progress and the weapon system status to be derived.

6 The initial Master Schedule submitted approximately 1 Apr 58, (ref Minutes of the First Arrow Weapon System and Co-ordinated Projects Programming Committee, 28 Jan 58) will be the basis for the schedule described in para 5. The scheduled items and dates will be written into the respective contractors' Statements of Work and as such will provide the contractual support for the Master Schedule. There will be a contractual change procedure to amend the Statements of Work and the associate contractors will implement the day-to-day Master Schedule changes by submission of the change documents through the respective contractor resident RCAF and DDP representatives.

7 The Programming Committee will meet at AFHQ with AAWS as chairman and will publish brief minutes with detailed list of decisions. These decisions will become official under cover of a letter from AAWS, and DArME, in the case of Canadair.

ADVISORY COMMITTEES

8 The following committees will function at the "working level" and will be ad hoc by nature. These committees replace the co-ordinating committee sub-committees. They will meet at the contractors' plants or AFHQ and will be under the auspices of the noted agency.

<u>TITLE</u>	<u>CHAIRMAN AND SECRETARY FROM</u>
Arrow Weapon System Flight Test Advisory Committee	AAWS
Arrow Weapon System Maintenance Advisory Committee	AMCHQ
Arrow Weapon System Training Aids Advisory Committee	DIE Eng
Arrow Weapon System Electronics Advisory Committee	AAWS/AWS 2

<u>TITLE</u>	<u>CHAIRMAN AND SECRETARY FROM</u>
Arrow Weapon System Engines Advisory Committee	AAWS/AWS 3
Arrow Weapon System Aircraft Advisory Committee	AAWS/AWS 3
Arrow Weapon System Contractor Co-ordination Advisory Committee	Co-ordinating Contractor

9 The terms of reference of these committees will correspond to the responsibilities on the Arrow Weapon System that have been delegated to the noted agency, AAWS, and/or DDP.

10 To be effective, the committees should meet on a 30-60 day cycle during the development period and should stress the weapon system concept. In this regard, representation from all four contractors should be encouraged and meetings should be scheduled for periodic sittings at contractors other than the primary associate contractor involved.

11 The full attendance at any given meeting will depend on the items on the agenda. However, the following representation should be invited to all meetings wherever possible.

(a) Flight Tests:

CEPE	DADR
AAWS Project Officers	AVRO
Airframe	Orenda
Engine	RCA
Electronics	Canadair
ADCHQ	OC TSDs AVRO
AMCHQ	OC TSDs Canadair
DARME (Sparrow and associated problems)	RCAF Plant Rep RCA

(b) Maintenance:

AMCHQ	Orenda
AAWS Project Officers	AVRO
Airframe	RCA
Engine	Canadair
Electronics	OC TSDs AVRO
ADCHQ	OC TSDs Canadair

DArmE
DADR
DMEng

RCAF Plant Rep RCA

(c) Training Aids:

DIE Eng
AAWS Project Officers
Airframe
Engine
Electronics

TCHQ
DADR
AMCHQ
DArmE
DGT
AVRO
OC TSDs AVRO
ADCHQ

(d) Electronics:

AAWS Project Officers
DArmE
DADR
CEPE
RCA

ADCHQ
AVRO
Canadair
OC TSDs AVRO
OC TSDs Canadair
RCAF Plant Rep. RCA

(e) Engine:

AAWS Project Officer
AMCHQ
ADCHQ
DADR

Orenda
AVRO
OC TSDs AVRO

(f) Aircraft:

AAWS Project Officers
Airframe
Engine
Electronics
AMCHQ
ADCHQ
DArmE
DADR

AVRO
Orenda
RCA
Canadair
OC TSDs AVRO
OC TSDs Canadair
RCAF Plant Rep RCA

(g) RCAF Co-ordination

AAWS	TCHQ
DArmE	OC TSDs Canadair
AMCHQ	RCAF Plant Rep RCA
ADCHQ	DADR
DAPC	DCED
DIE Eng	CEPE
OC TSDs AVRO	DAEng
	DSE
	DADO

(h) Contractor Co-ordination

AVRO	AAWS
RCA	
Orenda	
Canadair	

12 It is imperative to stress the point that all meetings should be concise and short as possible. Lengthy discussion periods should be left for normal staff action. The minutes should be brief and record the decisions in a definitive manner. It shall be the responsibility of the AAWS representative to ensure that staff action is taken to approve the decisions through AAWS to the contractors on receipt of the minutes.

ASSOCIATE COMMITTEES

13 At present there are two associate committees entitled "Sparrow II Co-ordinating Committee" under the jurisdiction of DOE Organization Order 32 dated 27 May 57, and the "AAED Range Facilities Committees". The chairmanship of both committees resides in DArmE.

14 The Sparrow II committee details primarily with the technical and operational aspects of the missile and includes the exercising of the DArmE-AAWS mutual responsibilities on the Arrow Weapon System. AAWS airframe and electronic project officers attend all meetings.

15 The AAED Range Facilities Committee deals with the Cold Lake facilities that will be required to allow the development of the Sparrow missile and the Arrow aircraft to be finalized.

SUMMARY

ARROW WEAPONS SYSTEM AND CO-ORDINATED PROJECTS COMMITTEE STRUCTURE
AND STAFF BRIEFING PROCEDURE

	<u>Programming Committee</u>	<u>Project Committees</u>	<u>Associate Committees</u>
Meeting Location:	AFHQ	Contractors	AFHQ
Frequency:	4 Months	Ad Hoc	1 Month or as required
Attendance:	Director Level Incl. AAWS DProgC DMP/MP-2 DAPP DDP DArmE DIE Eng AMCHQ DAPC AVRO Canadair Orenda RCA DADR USAF CEPE AAEM OC TSDs AVRO OC TSDs Canadair RCAF Plant Rep RCA	As noted by Committees for: - Flight Test - Maintenance - Training Aids - Electronics - Engines - Aircraft - RCAF Co-ordination - Contractor Co-ordination	As required by Committees for: - Sparrow II Coord - AAED Range Facilities
Purpose:	To derive, review, and amend as necessary the master schedule and initiate action in program problems areas.	To resolve localized problems and recommend corrective action.	To resolve technical and operational problems and recommend corrective action.
Method:	Chaired by Assistant/AWS.	Chaired as appropriate to the function.	Chaired by DArmE representatives.
Minutes:	Brief with detailed list of decisions.	Brief with detailed list of required action.	Brief with detailed list of required action.

