

QCX  
Avro  
CF105  
LOG  
105-  
27

ANALYZED

PERFORMANCE AND LOADING CHARACTERISTICS

FOR THE

S.A.F.T. BATTERY

NRC - CISTI  
J. H. PARKIN  
BRANCH

JUN 8 1995

ANNEXE  
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CNRC - ICIST

LOG/105/27

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ENGINEERING DIVISION

AVRO AIRCRAFT LIMITED, MALTON, ONTARIO



LOG/105/27

1. INTRODUCTION

During the CF105 Mock-up Evaluation in February the RCAF expressed a desire for performance and loading characteristics for the S.A.F.T. Battery 20-V015, AVRO Part Number 7-1152-11.

This report supplies that information.

2. CONTINUOUS LOAD

Battery will supply a continuous load of:-

22 amps at + 68°F for 48 mins.  
22 amps at + 32°F for 38½ mins.  
22 amps at - 4°F for 29¾ mins.  
22 amps at - 40°F for 18½ mins.

3. EMERGENCY LOADS DURING FLIGHT

Loads that can be encountered during flight in emergency with "Master Elect" switch ON are:-

External Tank Jettison	1.35 amps - Mom.
U/C Indication	.09 amps - Cont.
Fire Detection	1.00 amps - Cont.
Canopy Seal	1.00 amps - Cont.
Speed Brake Actuation	.60 amps - Cont.
Master Warning Box	1.35 amps - Cont.
Emergency Cockpit Lights	.60 amps - Cont.
Turn and Bank Indicator	.20 amps - Cont.
Ignition (Relight)	7.00 amps - 30 secs. max.
A.R.C. 34 U.H.F.	14.00 amps - Cont.
A.I.C. 10 Intercommunication	2.90 amps - Cont.
Canopy Actuating and Control	16.80 amps - for 8 secs.
Fire Extinguishing	8.00 amps - Mom.
L/P Cocks (Close)	12.80 amps - for 1 sec.
I.F.F. Crash	40.0 amps - Mom.

4. MISCELLANEOUS LOADS

Loads that can be encountered during flight in emergency with "Master Elect" switch OFF are:-

Canopy Actuating and Control	16.80 amps - for 8 secs.
Fire Extinguishing	8.00 amps - Mom.
L/P Cocks (Close)	12.80 amps - for 1 sec.
I.F.F. Crash	40.00 amps - Mom.

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