Part I – The People
Part II – The Places
Part III – The Products

WINNIPEG REUNION 2012
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What was the first product-line manufactured?

- OJ-172 DEAC (Data Exchange Auxiliary Console) harnesses
- AN/UYK-7(V) wire harnesses and maintenance consoles
What was the second product-line manufactured?

- UNIVAC M-460 15-pin circuit boards
  - Deployed on the USS Iowa Class Battleships as the enhanced Fire Control System 16” guns
What are Tin Whiskers?

At ~50°F along with a specific salt induced humidity, tin crystals will form overlapping solder joints causing a short. Tin Whiskers were found on the UYK-7 core memory arrays and the AYK-10 mated-film memory arrays causing memory shorts during the 80’s.

Today ask Toyota Corp regarding “Tin Whiskers” and the fly-by-wire accelerator circuit….causing the “sudden acceleration syndrome” in certain makes and models of Toyota vehicles…. Lesson learned?
First Canadian products to be developed and manufactured in Winnipeg:

- AN/UYK-502(V) Data Processing Set, Canadian Navy
- AN/UYC-501(V) SHINPADS (SHipboard INtegrated Processing And Display System), US Marine Corp, Marine Air Traffic Control And Landing System (MATCALS)
What does the military equipment designation AN/UYK stand for?

- AN/ – Army-Navy (JETDS System)
- U – General utility (includes two or more general installation classes, airborne, shipboard, and ground)
- Y – Data processing
- K – Computing
The Winnipeg facility was able to market and access all three services of the Canadian Armed Forces.

Winnipeg manufactured product lines are currently deployed in:

- Canadian Air Force, Army and Navy,
- US Air Force, FAA, Marine Corp, and Navy, and
- International Navies
AN/UYC-501 Serial Data Bus

Customer: DND Canada  US Air Force  US Marine Corp
Platform: CPF/TRUMP  ABCCC  MATCALS
No. of Systems
Deployed: 19  4  17
AN/UYK-507, UYC-503, UYC-504, MU5028/U Products

Customer: DND
Platform: CPF/TRUMP
No. of Units Deployed:
- 110 UYK-507s
- 700+ UYQ-505s including subsets
- 95+ UYC-503 Quad Nodes
- 716+ UYC-504 BAMs
- 66 MU-5028/U Disk Drive Units w 236 RDUs
Product Brochure: We had our moments...

MU-5028/U
DISK DRIVE
UNIT
(The drive of choice)
Customer: US Marine Corps
Platform: Marine Air Traffic Control And Landing System
No. Of Units Deployed: 34 UYQ-505s, 136 UYC-503 Nodes, and 204 BAMs
AN/UYK-502 Product Line

Customer: Various
Platform: Shipboard
No. Of Units Deployed: 50+ UYK-502s
Countries Deployed:
- US Navy
- Australia Defence, Navy
- Japanese Navy, ASWOC
- Royal Thai Navy, MPS
- Malaysian Navy, MASS
Other Naval Products

- ~ 150 VME Single Board Nodes deployed, DND Canada
  - System Health Monitoring
  - Tactical Data Collection System
  - CPF CCM6
- AN/UYK-7 Core Memory Assemblies and CCAs
- AN/UYK-20A (V) Core Memory Assemblies
- Portable Cable Testers
Direct Fire Targetry (DFT) – Integrated Targetry Suite

- DFT home bases are CFB Gagetown, NS, CFB ASU Wainwright, AB, CFB Valcartier, QC, and CFB Petawawa, ON
- DFT equipment and LM personnel are also deployed to various areas in Canada, USA, and Jamaica
Direct Fire Targetry Systems

- Static Infantry Target
  - Developed using self-healing molded plastic
DFT Systems Cont’d

* Hand-held Controller
  * Radio control capable of handling multiple target systems
Light – Hostile Fire Simulator (L-HOFS)

- Provides realistic small-arms, audible single-shot and automatic rifle fire with muzzle flash and rate of 600 rounds per minute.
Moving Vehicle Target Mechanism

- Equipped with variety of guidance systems, wire follower, GPS, or remote video
- Available to power thermal targets
Airborne Products

* AN/AYK-10 (V) Double Density Mated Film Memory Assemblies
* EH-101 New Shipborne Aircraft Combat Mission System
* AN/AYK-23 (V) Computer Processor Memory Unit (CPMU)
Airborne Products Cont’d

- EC-130E Airborne Battlefield Command and Control (ABCCC) SHINPADS SDB Inter-connect
Other Product Lines

- FAA ARTS-III (Automated Radar Terminal System) Power Supplies
- VME Sensor Array Radar Scan Converter
To my friends and colleagues, wishing you all the best!

- Pogo

* P.S. A little hug goes a long way.