1 Q. RE p. B-17, provide copies of communications from the manufacturers

2   indicating that the Distributed Control System is obsolete and no longer

3   supported.

4

5

6 A. Attached is the Westinghouse "Life Cycle Planning Program Sales,

7   Evaluation and Report Guide", dated March 2001, which was the document

8   used to justify the original project. The fourth page is a "Quick Reference

9   Table" which identifies WDPF 6 level will be supported until January 2002,

10   this is Holyrood Stage I System, and WDPF 7 level will be supported until

11   January 2003, and this is Holyrood Stage II System. Also attached is a web

12   site download dated June 2, 2003, which shows the updated version of the

13   "Quick Reference Table" showing that both levels were retired as predicted in

14   2001.

LIFE CYCLE PLANNING PROGRAM
SALES, EVALUATION AND REPORT GUIDE

WESTINGHOUSE PROCESS CONTROL, INC
A FISHER-ROSEMOUNT COMPANY
Newfoundland and Labador Hydro
SERVICES MARKETING DEPARTMENT
PITTSBURGH, PENNSYLVANIA 15238

Revision 0 – March 2001

LIFE CYCLE PROGRAM PROCESS

INTRODUCTION

The goal of Westinghouse Process Control's (WPC) System Life Cycle Program is to help users of WDPF and Ovation systems develop the best short and long term process automation strategies for their plants based upon a comprehensive evaluation of the issues affecting product/equipment support and availability, both now and in the future. The program offers a step-by-step methodology to collect the data necessary to develop a comprehensive, system-wide assessment. Recommendations for both short and long term options, including replacements, upgrades and migration are provided. Final decisions regarding strategy will need to be determined within the greater context of the customer's system functionality requirements, plans for future expansion, budgetary constrains, and overall business strategy.

The methodology for developing a comprehensive system life cycle plan involves the following steps:

- Review each drop in the system using the Drop Life Cycle Evaluation Forms. These forms list the component sourcing issues associated with each drop, expiration date of WPC's ten-year product support commitment for the drop, immediate support options to maintain the drop in the face of component sourcing issues, and both short and long term planning recommendations.

- Compilation of all Drop Evaluation Forms to develop a system-wide timeline and assessment showing expiration dates of WPC's ten-year product support commitment for existing equipment, as well as expanded support that can be expected from implementation of both short and long term recommendations.
- Customer analysis of short and long term planning options based upon the company's business strategies, system functionality requirements, future expansion plans, and budgetary constrains.

Westinghouse Process Control, Inc. **Product Support Policy** **Revision 0** **January 8, 1999**	
"Westinghouse Process Control, Inc. will provide systems, products and services that allow its customers to maximize the life of their process control and information technology system investment." **Westinghouse Process Control, Inc. will provide a minimum of ten years of product support as defined below:**	
Current Product	The most current system product offered, with published pricing, normal lead times, and complete support. These products are recommended for all new systems and major expansions.
Active Product	System products that have been functionally replaced by the most current product, but remain available with published pricing, normal lead times, and complete support. These products are intended for expansion of existing systems where the need for product consistency outweighs the features, performance, and longer-term potential of the current product. The transition to Active Status marks the start of the ten-year product support commitment.
Maintained Product	These system products are generally not available for purchase. Product support is available, but oriented to maintenance (i.e., replacement parts, repairs and field services) rather than system expansion. System Life Cycle Planning is encouraged to address long-term support and expansion.
Retired Product	These system products are no longer available for purchase. Product support is limited, potentially slower and more costly, and subject to material availability. The transition to Retired Status marks the completion of the ten-year product support commitment.
This policy pertains to standard system products manufactured by Westinghouse Process Control, Inc. At times, WPC may offer functional replacement products or refurbished parts in support of this policy. This would occur only when outside sourcing factors beyond the control of WPC prevent the manufacture of new WPC products of the original design. Non-WPC-manufactured products supplied by WPC may have a shorter support life. WPC will endeavor to qualify sources for non-WPC-manufactured products based on suppliers' commitment to long-term support and product migration.	

EXPLANATION OF NOTES ON EVALUATION FORM

NOTE NO.	DEFINITION
1.	See definition of terms for Current, Active, Maintained and Retired product in Product Support Policy Document.
2.	Short term action to be executed within the current user's fiscal year.
3.	Long term plan for execution in the next fiscal year from evaluation date. It could be a multi-year plan.

SPECIAL NOTE: ALL RECOMMENDATIONS FOR SHORT AND LONG TERM LIFE CYCLE PLANNING ARE BASED ON A SYSTEM WHICH HAS BEEN UPGRADED TO BE Y2K COMPLIANT

QUICK REFERENCE TABLE
FOR
PRODUCT SUPPORT BY PCD

SYSTEM LEVEL/PRODUCT NAME	PCD SUPPORT STATUS	TEN YEAR PRODUCT SUPPORT COMMITMENT EXPIRATION DATE
WDPF 4 Level	Maintained	January 2001
WDPF 5 Level	Maintained	January 2001
WDPF 6 Level	Maintained	January 2002
WDPF 7 Level	Maintained	January 2003
WDPF 8 Level	Current	Ten years or longer
OVATION	Current	Ten years or longer
Q-Line I/O	Current	Ten years or longer
PCH Platform	Active	January 2005

LIFE CYCLE EVALUATION
REPORT

SYSTEM DATA

CUSTOMER'S NAME: Newfoundland and Labador Hydro
PLANT NAME: Holyrood Generation Station
UNIT NO.: Unit 1 & Unit 2

SYSTEM CONFIGURATION

QTY	DROP TYPE	SOFTWARE LEVEL	REMARKS
10	DPU	6	
2	ENGINEER MMI	6	
8	OPERATOR MMI	6	
1	HDR	6	

DROP SUMMARIES

The following data was obtained from the evaluation forms:

DPUs.

Current Support Status: Maintained (see definition in another section of this document)
Ten year support commitment expires in January 2002
Sourcing issues with MSQ card is obsolete.
Short term planning recommendations: Upgrade to 486 level DPU.
Long term planning recommendations: Consider Migration to Ovation.

CLASSIC ENGINEER MMI

Current Support Status: Maintained
Ten year support commitment expires in January 2002
Sourcing issues with Matrox board, MSP and hard drive.
Worst case: Matrox board and hard drives.
Short term planning recommendations: Upgrade to PCH or WEStation Engineer Station.
Long term planning recommendations: Consider Migration to Ovation.

CLASSIC OPERATOR MMI

Current Support Status: Maintained
Ten year support commitment expires in January 2002
Sourcing issues with Matrox board, and MSP cards.
Worst case: Matrox board.
Short term planning recommendations: Upgrade to PCH or WEStation Engineer Station.
Long term planning recommendations: Consider Migration to Ovation.

CLASSIC HDR/HSR

Current Support Status: Maintained
Ten year support commitment expires in January 2002
Sourcing issues with MSP, MSL and Kennedy Mag Tape and controller card
Short term planning recommendations: Upgrade to PCH Historian or WEStation Historian.
Long term planning recommendations: Consider Migration to Ovation.

WEStation

Current Support Status: Current
Ten year support commitment – No expiration date set yet
Sourcing issues: "S" bus Sun Workstations are not available.
Short term planning recommendations: Upgrade to PCI bus Sun Workstation if replacements of "S" bus is needed.
Long term planning recommendations: None.

DATA ANALYSIS

There are sourcing issues with all the drops, some cards or devices may be difficult to replace and except for the PCH and the WEStation, the ten year support commitment by WPC will expire in 2003. Replacement hardware will become more difficult to obtain as time goes by. Even though the PCH support will extend to 2005, there are already industry trend pointing to the need for upgrade/replacement. Evaluation of upgrade/migration options is needed

The MMIs and the HSR are the drops with the most critical sourcing issues. These drops should be considered for upgrade before January 2002. The hard drives for the Engineer MMI are no longer available and WPC can only obtain limited quantities of refurbished units. There is no guarantee that these devices will be available two or three years from now although WPC will make every effort to support our customers. The cards/devices with sourcing issues listed in the evaluation are obsolete and as time goes by, it will become increasingly difficult to repair them.

SYSTEM MIGRATION ALTERNATIVES – LIFE CYCLE PLANNING

- The analysis of the life cycle for each of the drops indicates that the current platform for DPUs and MMIs will need replacement in 2002 when the product support by WPC will expire.
- Replacement parts will become more expensive and more difficult to obtain.
- The migration alternatives are WEStation or Ovation platforms.
- One possibility is to upgrade to WEStation and later upgrade to Ovation if a gradual migration is desired.

BENEFITS OF UPGRADING TO WESTATION PLATFORM

- Life of current system will be extended
- Migration path to Ovation
- Q-Line I/O fully supported
- Solaris windowing environment
- WEStation provides Ethernet Information Highway
- Ethernet Information Highway facilitates communication to other networks
- Provides a platform to support external data access to business and desktop applications via the optional ODBC server
- Current Westnet II data highway can be used
- Can combine Historian and Logger functions in one drop
- Improved trending, point attributes display and security for unauthorized access

DROP LIFE CYCLE EVALUATION

DROP NAME	DPU
SYSTEM LEVEL	6
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2002
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SUGGESTED SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
MSQ card, obsolete Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSQ cards from WPC. 3. Migrate to 486 DPU.	Target DPUs with highest cycle time and database usage (above 80%). These DPUs can be upgraded to 486. Existing boards can be used for spares.
MSM & MME Cards no longer available	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished cards from WPC. 3. Replaced by MSE.	Replace with MSE.
MBT, MBC, MBD	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished cards from WPC. 3. Replace with MHC (single board replacement for entire set). See Note 4.	Replace set with MHC.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The system MBD firmware level must be 8.0. Also the MHC must be replaced as a pair on both primary and back-up DPU.
Note 5. Upgrade to Ovation must be performed on complete system.

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Plan DPU replacement / upgrade to 486 based DPU level. This extends current product life.
2. Consider migration to Ovation controller. See Note 5. This extends overall system life.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

Last revision date: 1/21/2000

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC ENGINEER MMI
SYSTEM LEVEL	6
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2002
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
Matrox board obsoleted by supplier.	1. Check WPC for last of stock units. 2. Purchase refurbished Matrox cards from WPC. 3. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Engineer Station 2. Upgrade to WEStation Engineer Station. **See Note 5.**
MSP card obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSP cards from WPC. 3. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Engineer Station 2. Upgrade to WEStation Engineer Station. **See Note 5.**
Hard drives obsoleted by suppliers	1. Purchase refurbished hard drives from WPC. 2. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Engineer Station 2. Upgrade to WEStation Engineer Station. **See Note 5.**
MBR card no longer available.	Replaced by MDM.	Replace with MDM.
MBT, MBC, MBD	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished cards from WPC. 3. Replace with MHC (single board replacement for entire set). **See Note 4.**	Replace set with MHC.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The system MBD firmware level must be 8.0.
Note 5. The first WEStation must be Engineer/Software Server(SS)/System Development Station (SDS).

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):
1. Upgrade to PCH Engineer Station. This extends current product life.
2. Upgrade to WEStation Engineer Station. **See Note 5.** This extends current product life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Engineer.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

SPECIAL PRODUCT NOTE:

Due to the difficulty in obtaining replacement hard drives, we recommend that this drop be upgraded to PCH or WEStation as soon as possible.

Last revision date: 1/21/2000

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC OPERATOR MMI
SYSTEM LEVEL	6
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2002
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
Matrox board obsoleted by supplier.	1. Check WPC for last of stock units. 2. Purchase refurbished Matrox cards from WPC. 3. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Operator Station 2. Upgrade to WEStation Operator Station. See Note 5.
MSP card obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSP cards from WPC. 3. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Operator Station. 2. Upgrade to WEStation Operator Station. See Note 5.
MBR card no longer available.	Replaced by MDM.	Replace with MDM.
MBT, MBC, MBD	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished cards from WPC. 3. Replace with MHC (single board replacement for entire set). See Note 4.	Replace set with MHC.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The system MBD firmware level must be 8.0.
Note 5. The first WEStation must be Engineer/Software Server(SS)/System Development Station (SDS).

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Upgrade to PCH Operator Station. This extends current product life.
2. Upgrade to WEStation Operator Station. See Note 5. This extends current product life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Operator.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

Last revision date: 1/21/2001

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC HSR
SYSTEM LEVEL	6
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2002
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
MSP card obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSP cards from WPC. 3. Migrate to PCH Historian or WEStation Historian (SUN).	1. Upgrade to PCH Historian. 2. Upgrade to WEStation Historian. See Note 5. 3. Upgrade to Enterprise Historian (NT based). See Note 6.
MSL card obsolete. Intel co-processor.	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSL cards from WPC. 3. Migrate to PCH Historian or WEStation Historian (SUN).	1. Upgrade to PCH Historian. 2. Upgrade to WEStation Historian. See Note 5. 3. Upgrade to Enterprise Historian (NT based). See Note 6.
Kennedy Mag Tape and controller card are obsolete.	1. Purchase refurbished Mag Tape Controller card from WPC. 2. Migrate to PCH Historian or WEStation Historian (SUN).	1. Upgrade to PCH Historian. 2. Upgrade to WEStation Historian. See Note 5. 3. Upgrade to Enterprise Historian (NT based). See Note 6.
MBT, MBC, MBD	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished cards from WPC. 3. Replace with MHC (single board replacement for entire set). See Note 4.	Replace set with MHC.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The system MBD firmware level must be 8.0.
Note 5. The first WEStation must be Engineer/Software Server(SS).
Note 6. Consult with Services Marketing in Pittsburgh for availability, compatibility and other system requirements prior to offering this drop as a replacement.

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Upgrade to PCH Historian Station. This extends current product life.
2. Upgrade to WEStation Historian Station. See Note 5. This extends current product life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Historian.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

Last revision date: 1/21/2001

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC LOGGER
SYSTEM LEVEL	6
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2002
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
MSP card obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSP cards from WPC. 3. Migrate to PCH Logger or WEStation Log Server (SUN).	1. Upgrade to PCH Logger. 2. Upgrade to WEStation Logger. **See Note 5.**
MBR card no longer available.	Replaced by MDM.	Replace with MDM.
MBT, MBC, MBD	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished cards from WPC. 3. Replace with MHC (single board replacement for entire set). **See Note 4.**	Replace set with MHC.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The system MBD firmware level must be 8.0.
Note 5. The first WEStation must be Engineer/Software Server(SS). The Logger and Historian can be combined in one WEStation drop.

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Upgrade to PCH Logger Station. This extends current product life.
2. Upgrade to WEStation Logger Station. **See Note 5.** This extends current product life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Historian.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

Last revision date: 1/21/2001

BENEFITS OF UPGRADING TO OVATION PLATFORM

- Most current product offered
- Migration tools available to convert existing DPU applications
- Retains the use of existing Q-Line I/O, Local and Remote and their termination's
- Q-Line and Ovation I/O can be mixed
- Option of using Windows NT or Sun Solaris Workstation platforms
- Controllers are Pentium with standard PCI/ISA bus architecture
- High speed, high capacity FDDI network using commercially available hardware
- Based on open industry standards, the Ovation system can integrate third-party products with ease for data transfer to business enterprise systems
- Benefit of compatibility with enhancements, new features or new products from WPC
- Seamless integration of Allen Bradley PLCs
- Higher overall system capacity

LIFE CYCLE EVALUATION
REPORT

SYSTEM DATA

CUSTOMER'S NAME: Newfoundland and Labador Hydro
PLANT NAME: Holyrood Generation Station (7 Level System)
UNIT NO.: Unit 3

SYSTEM DATA

DROP SUMMARIES

The following data was obtained from the evaluation forms:

DPUs.

Current Support Status: Maintained (see definition in another section of this document)
Ten year support commitment expires in January 2003
Sourcing issues with MSX because the 386 Intel processor is obsolete.
Short term planning recommendations: Upgrade to 486 level DPU.
Long term planning recommendations: Consider Migration to Ovation.

CLASSIC ENGINEER MMI

Current Support Status: Maintained
Ten year support commitment expires in January 2003
Sourcing issues with Matrox board, MSP and hard drive.
Worst case: Matrox board and hard drives.
Short term planning recommendations: Upgrade to PCH or WEStation Engineer Station.
Long term planning recommendations: Consider Migration to Ovation.

DROP EVALUATION FORMS

<u>DROP LIFE CYCLE EVALUATION</u>

DROP NAME	DPU
SYSTEM LEVEL	7
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2003
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
MSX (386) obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSX cards from WPC. 3. Migrate to 486 DPU.	Target DPUs with highest cycle time. These DPUs can be upgraded to 486. Existing boards can be used for spares.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. Upgrade to Ovation must be performed on complete system.

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Plan DPU replacement / upgrade to 486 based DPU level. This extends current product life.
2. Consider migration to Ovation controller. See Note 4. This extends overall system life.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC ENGINEER MMI
SYSTEM LEVEL	7
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2003
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
Matrox board obsoleted by supplier.	1. Check WPC for last of stock units. 2. Purchase refurbished Matrox cards from WPC. 3. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Engineer Station. 2. Upgrade to WEStation Engineer Station. See Note 4.
MSP card obsolete. Intel co-processor	4. Check WPC for stock units or new manufacture from "last buy" of components. 5. Purchase refurbished MSP cards from WPC. 6. Migrate to PCH or WEStation (SUN).	3. Upgrade to PCH Engineer Station 4. Upgrade to WEStation Engineer Station. See Note 4.
Hard drives obsoleted by suppliers	7. Purchase refurbished hard drives from WPC. 8. Migrate to PCH or WEStation (SUN).	5. Upgrade to PCH Engineer Station. 6. Upgrade to WEStation Engineer Station. See Note 4.
MBR card no longer available.	Replaced by MDM.	Replace with MDM.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The first WEStation must be Engineer/Software Server(SS)/System Development Station (SDS).

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Upgrade to PCH Engineer Station. This extends current product life.
2. Upgrade to WEStation Engineer Station. See Note 5. This extends overall system life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Engineer.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

SPECIAL PRODUCT NOTE:

Due to the difficulty in obtaining replacement hard drives, we recommend that this drop be upgraded to PCH or WEStation as soon as possible.

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC OPERATOR MMI
SYSTEM LEVEL	7
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2003
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
Matrox board obsoleted by supplier.	1. Check WPC for last of stock units. 2. Purchase refurbished Matrox cards from WPC. 3. Migrate to PCH or WEStation (SUN).	1. Upgrade to PCH Operator Station. 2. Upgrade to WEStation Operator Station. See Note 4.
MSP card obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSP cards from WPC. 3. Migrate to PCH or WEStation (SUN).	3. Upgrade to PCH Operator Station. 4. Upgrade to WEStation Operator Station. See Note 4.
MBR card no longer available.	Replaced by MDM.	Replace with MDM.

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The first WEStation must be Engineer/Software Server(SS)/System Development Station (SDS).

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Upgrade to PCH Operator Station. This extends current product life.
2. Upgrade to WEStation Operator Station. See Note 5. This extends overall system life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Operator.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

DROP LIFE CYCLE EVALUATION

DROP NAME	CLASSIC HSR
SYSTEM LEVEL	7
PCD SUPPORT STATUS	MAINTAINED (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2003
EVALUATION DATE	

SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
MSP card obsolete. Intel co-processor	1. Check WPC for stock units or new manufacture from "last buy" of components. 2. Purchase refurbished MSP cards from WPC. 3. Migrate to PCH Historian or WEStation Historian (SUN).	1. Upgrade to PCH Historian. 2. Upgrade to WEStation Historian. **See Note 4.** 3. Upgrade to Enterprise Historian (NT based). **See Note 5.**
MSL card obsolete. Intel co-processor.	4. Check WPC for stock units or new manufacture from "last buy" of components. 5. Purchase refurbished MSL cards from WPC. 6. Migrate to PCH Historian or WEStation Historian (SUN).	1. Upgrade to PCH Historian. 2. Upgrade to WEStation Historian. **See Note 4.** 3. Upgrade to Enterprise Historian (NT based). **See Note 5.**
Kennedy Mag Tape and controller card are obsolete.	7. Purchase refurbished Mag Tape Controller card from WPC. 8. Migrate to PCH Historian or WEStation Historian (SUN).	4. Upgrade to PCH Historian. 5. Upgrade to WEStation Historian. **See Note 4.** 6. Upgrade to Enterprise Historian (NT based). **See Note 5.**

Notes 1, 2, 3, etc. See explanation at the front of this document.
Note 4. The first WEStation must be Engineer/Software Server(SS).
Note 5. Consult with Services Marketing in Pittsburgh for availability, compatibility and other system requirements prior to offering this drop as a replacement.

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Upgrade to PCH Historian Station. This extends current product life.
2. Upgrade to WEStation Historian Station. **See Note 4.** This extends overall system life.
3. Consider migration to Ovation. This extends overall system life.

If long term planning involves migration to Ovation, then the migration path is the WEStation Historian.

Above suggestions must be reconciled with the customer's plans for future expansion, maintenance and budgetary constrains.

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DROP LIFE CYCLE EVALUATION

DROP NAME	PCH
SYSTEM LEVEL	7
PCD SUPPORT STATUS	ACTIVE (NOTE 1)
TEN YEAR SUPPORT COMMITMENT EXPIRES	JANUARY 2005
EVALUATION DATE	

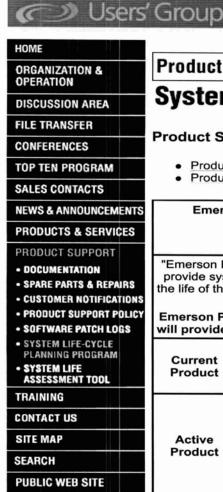| SOURCING ISSUES	OPTION(S)	SHORT TERM LIFE CYCLE PLAN (SEE NOTE 2)
Micro-Channel PCs are not available.	1. Check WPC for last of stock units. 2. Purchase used Micro-Channel PCs from used product dealers. 3. Migrate to ISA based PCs.	Upgrade to ISA based PC and GHC Data Highway Interface.
MCSM interface card, Micro-Channel IC components are obsolete.	4. Check WPC for stock units or new manufacture from "last buy" of components. 5. Purchase refurbished MCSM cards from WPC. 6. Migrate to ISA based PCs.	Upgrade to ISA based PC and GHC Data Highway Interface.

Notes 1, 2, 3, etc. See explanation at the front of this document.

SUGGESTED LONG TERM LIFE CYCLE PLAN (SEE NOTE 3):

1. Although this product still has several years of committed support by WPCD, there are industry trends that should be brought to the customer's attention for possible early migration. These trends include diminishing support for OS/2 platform, increasing difficulty in obtaining replacement parts such as color graphics cards. Also WPCD does not have plans to enhance or add features to the PCH platform.
2. Two migration paths are possible: Replacement of the PCH functions by WEStation(s) or Ovation platform.
3. The determination of migration path should be based on analysis of several factors such as customer's concerns for user acceptability of big or small changes in technology, desire to keep up with technology, additional training, etc. If slow migration is desired, then it is possible to add only a few WEStations. Additional features available in Ovation and WEStation platforms should also be considered as they may bring additional benefits to the customer.

Web Site Download June 2, 2003

Ovation | WDPF Users' Group   **EMERSON** Process Management

- HOME
- ORGANIZATION & OPERATION
- DISCUSSION AREA
- FILE TRANSFER
- CONFERENCES
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Product Support

System Life-Cycle Planning

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Emerson Process Management Power & Water Solutions, Inc.
Product Support Policy
Revision 1
November 15, 2002

"Emerson Process Management Power & Water Solutions, Inc.[Emerson] will provide systems, products and services that allow its customers to maximize the life of their process control and information technology system investment."

Emerson Process Management Power & Water Solutions, Inc. [Emerson] will provide a minimum of ten years of product support as defined below:

Current Product	The most current system product offered, with published pricing, normal lead times, and complete support. These products are recommended for all new systems and major expansions.
Active Product	System products that have been functionally replaced by the most current product, but remain available with published pricing, normal lead times, and complete support. These products are intended for expansion of existing systems where the need for product consistency outweighs the features, performance, and longer-term potential of the current product. The transition to Active Status marks the start of the ten-year product support commitment.
Maintained Product	These system products are generally not available for purchase. Product support is available, but oriented to maintenance (i.e., replacement parts, repairs and field services) rather than system expansion. System Life Cycle Planning is encouraged to address long-term support and expansion.
Retired Product	These system products are no longer available for purchase. Product support is limited, potentially slower and more costly, and subject to material availability. The transition to Retired Status marks the completion of the ten-year product support commitment.

This policy pertains to standard system products manufactured by Emerson Process Management Power & Water Solutions, Inc. [Emerson]. At times, the company may offer functional replacement products or refurbished parts in support of this policy. This would occur only when outside sourcing factors beyond the control of the company prevent the manufacture of new Emerson products of the original design. Non-Emerson-manufactured products supplied by Emerson may have a shorter support life. Emerson will endeavor to qualify

sources for non-Emerson-manufactured products based on suppliers' commitment to long-term support and product migration.

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Emerson Process Management Power & Water Solutions Product Support Quick Reference Table		
Product & System Level	**Support Classification**	**Ten-Year Product Support Commitment Expiration Date**
WDPF 4 Level	Retired	January 2001
WDPF 5 Level	Retired	January 2001
WDPF 6 Level	Retired	January 2002
WDPF 7 Level	Retired	January 2003
PCH Platform	Maintained	January 2005
WDPF 8 Level	Active	January 2012
Ovation	Current	Ten Years or Longer
Q-Line I/O	Current	Ten Years or Longer

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