Yield Improvement Of Oxidation & CDN Phenol 1

Organization Chart

Organization Chart

Mr. Thitiwat C.
Vice President
PH-P1 sponsor

Mr. Rittichai T.
Shift Manager

Mr. Narongrit Y.
Shift Supervisor
Secretary

Mr. Nattawit P.
Division Manager
PH-P1-OP

Mr. Suvirate P.
Division Manager
(PH-P1-TE)

Mr. Lertrob P.
Division Manager
(T-PI-C2)

Consultance

Mr. Narin K.
Shift Supervisor
PH-P1-OP

Mr. Somboon TH.
Shift Supervisor
PH-P1-OP

Mr. Tanit K.
Senior Operator
PH-P1-OP

Mr. Tanut K.
Process Engineer
PH-P1-TE

Ms. Phatsorn W.
Process Control Engineer
T-PI-C2

Method

Yield Improvement Of Oxidation & CDN Phenol 1

1

Analyze Data

2

Data Preparation

3

Integrated Software Exapilot +APC

4

Create E-MOC for Process Control Change

5

Communication Team & Test Run

Role & Responsibility

Project Management

- Project Management & Schedule
- Bi-Weekly meeting
- Project Coordinator
- Maintain Progress & Status
- Document Controller

Process Engineer

- Process Fundamental & Theory Support
- Data gathering & exploration
- Interpret analysis data and report
- Cost Calculation Before and After Project Implementation

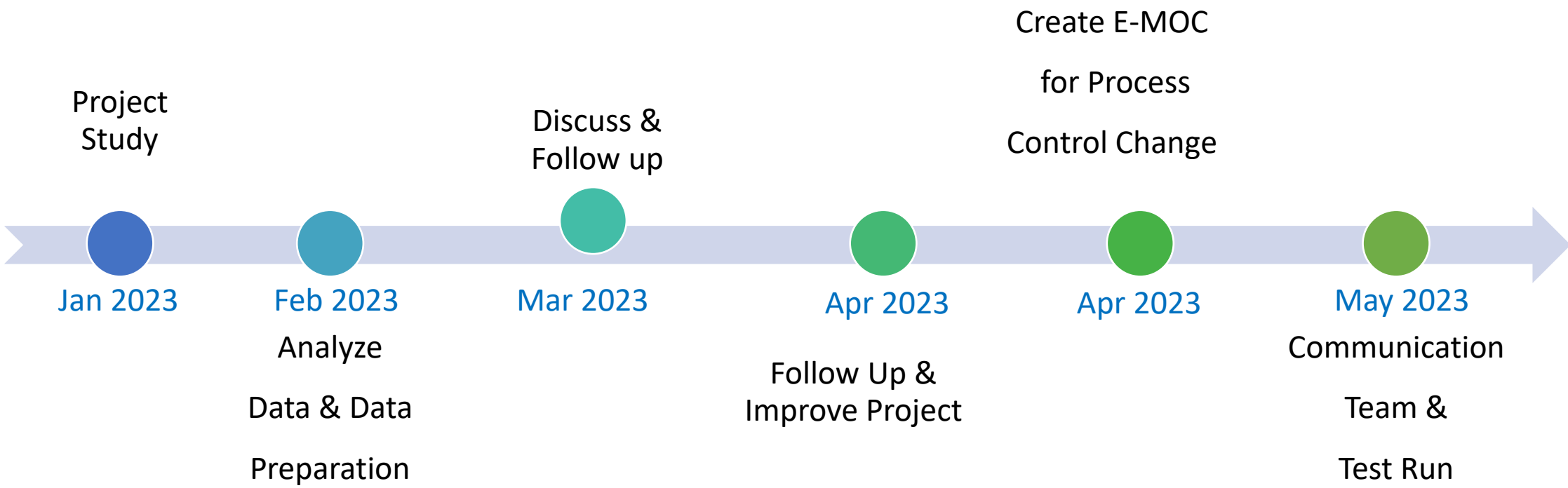
Plant Operation

- Develop Exa-pilot program
- Test run Exapilot and Process sampling for analyze
- Test run APC+Exapilot and Process sampling for analyze
- Test run New APC E-1308AB Process sampling for analyze
- Communication to Operation Shift Team

Process control Engineer

- Develop APC program
- Test run

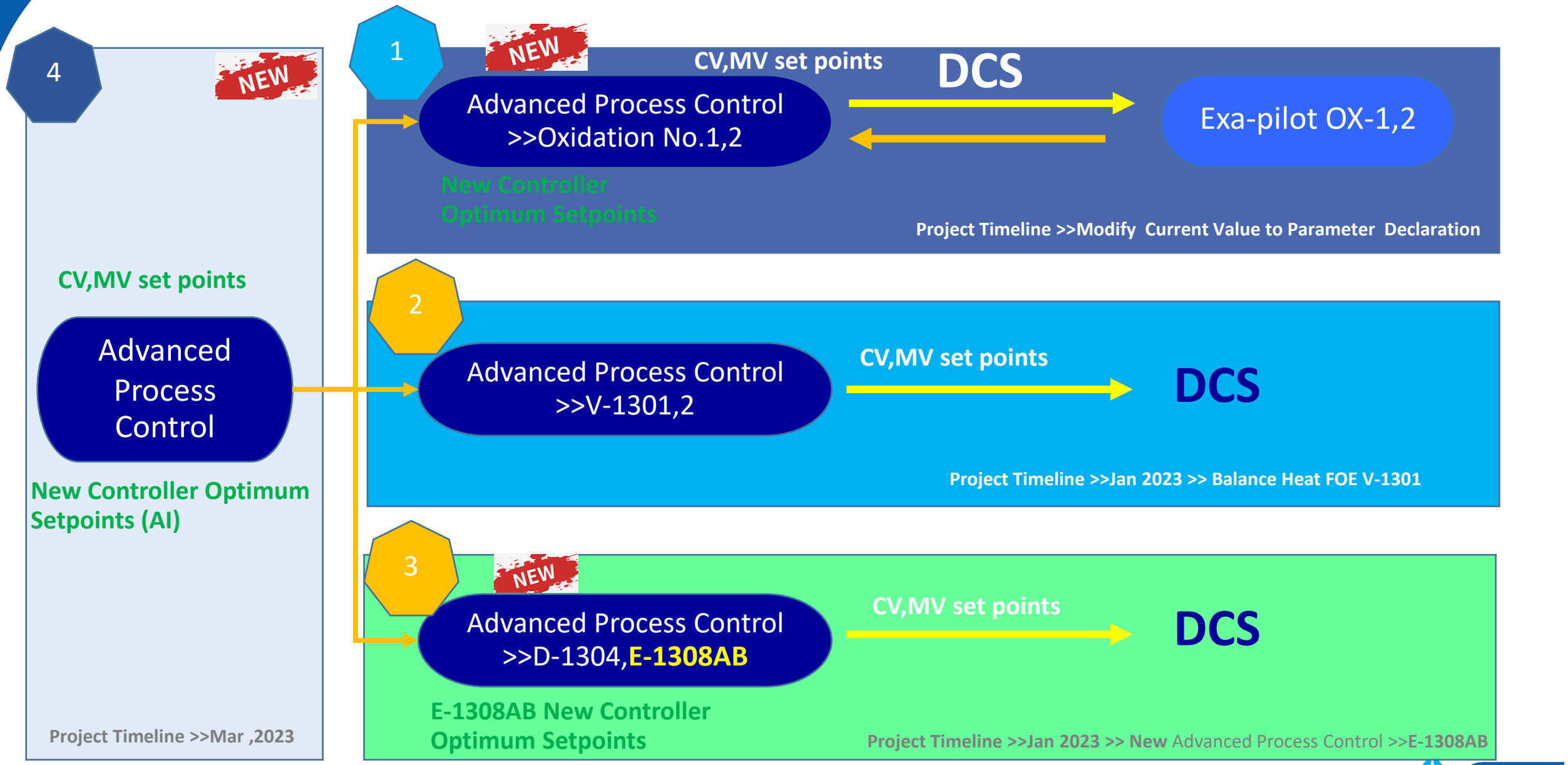
Project Schedule



Thank You

Have any comment?

OCDN loop optimization



1

NEW

CV,MV set points

Advanced Process Control >>Oxidation No.1,2

DCS

Exa-pilot OX-1,2

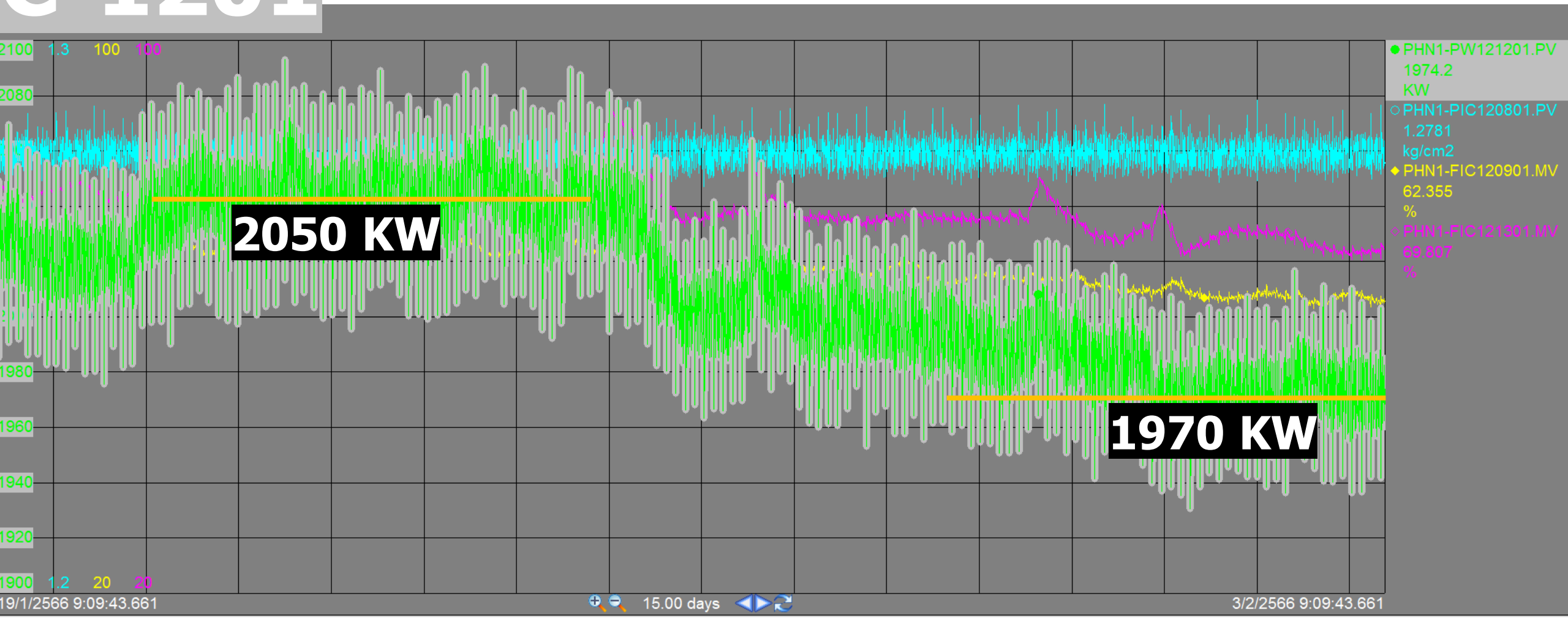
New Controller

Optimum Setpoints

Project Timeline >>Modify Current Value to Parameter Declaration

New Update 16/01/2566

C-1201


2100 1.3 100 100
2080
1980
1960
1940
1920
1900 1.2 20 20
2050 KW
1970 KW
PHN1-PW121201.PV
1974.2
KW
PHN1-PIC120801.PV
1.2781
kg/cm2
PHN1-FIC120901.MV
62.355
%
PHN1-FIC121301.MV
69.807
%
19/1/2566 9:09:43.661
15.00 days
3/2/2566 9:09:43.661

งานตาม

RE: [e-MoC] MoC Approval Request: PH-P1.1-2022/104: Modification of temperature control loop at Oxidizer No.2

Thitiwat C <PH-P1/3951>
To Suvirate P <PH-P1-TE/3909>
Cc Nattawit P <PH-P1-OP/3909>; Sirichai Tr <PH-P1-OP/3901>; Tanut P <PH-P1-TE/3952>; Phatchara C <H-PE-TC/4524>; Rittichai T <PH-P1-OP/3985>; Tanit K <PH-P1-OP/3993>

Reply

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THITIWAT C<PH-P1/3951>

GC Home Search

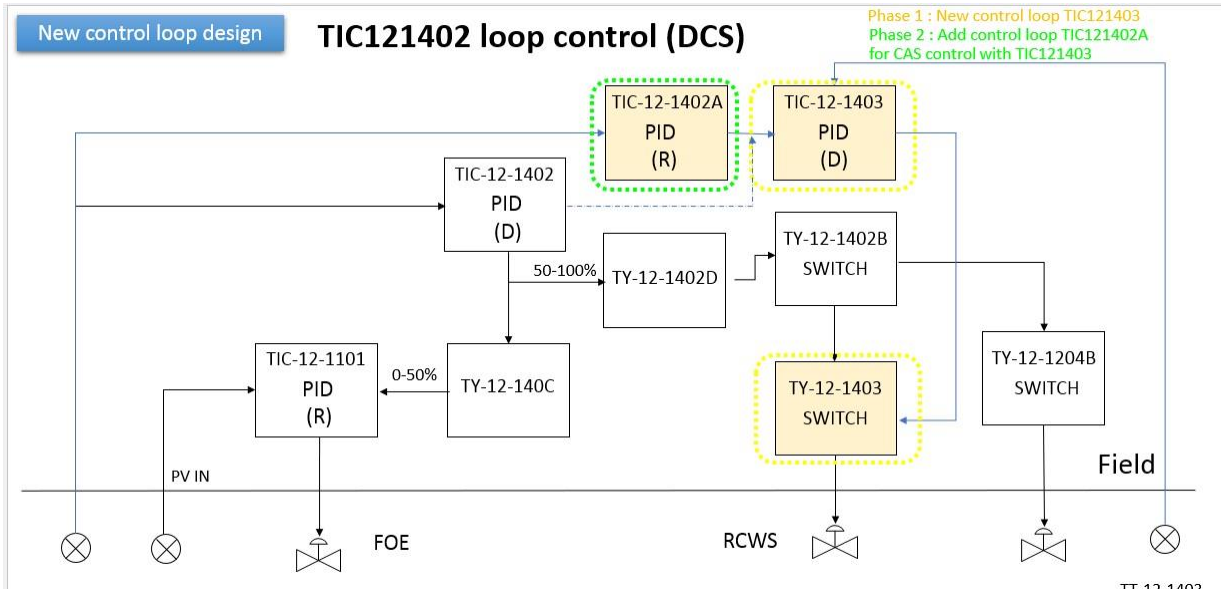
MoC Number : PH-P1.1-2022/104

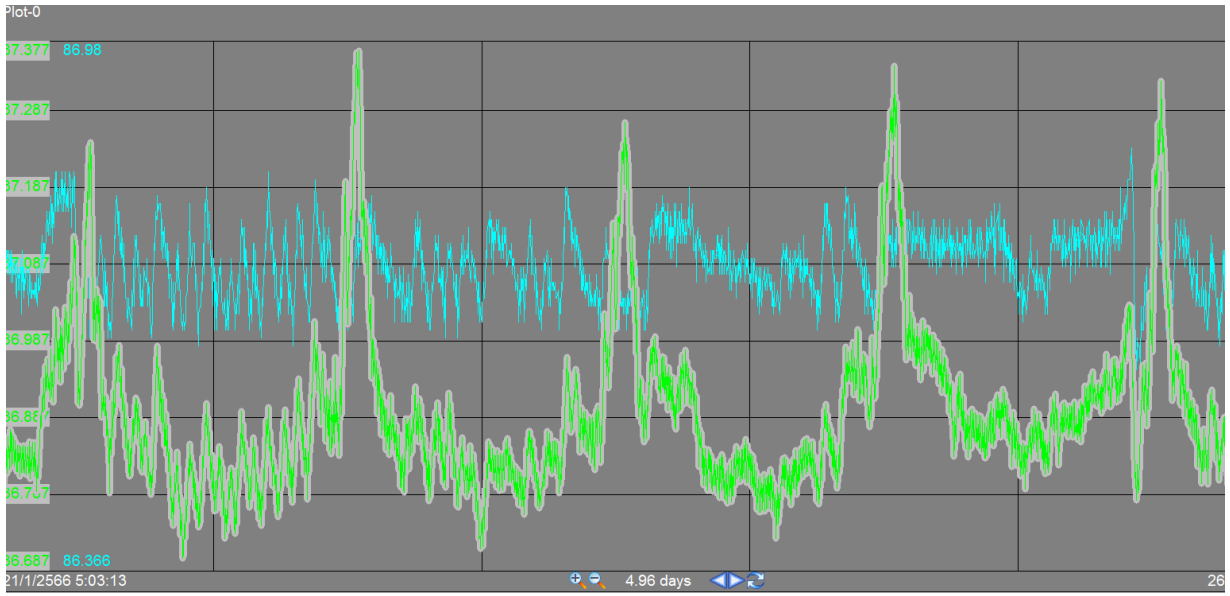
MoC Title : Modification of temperature control loop at Oxidizer No.2

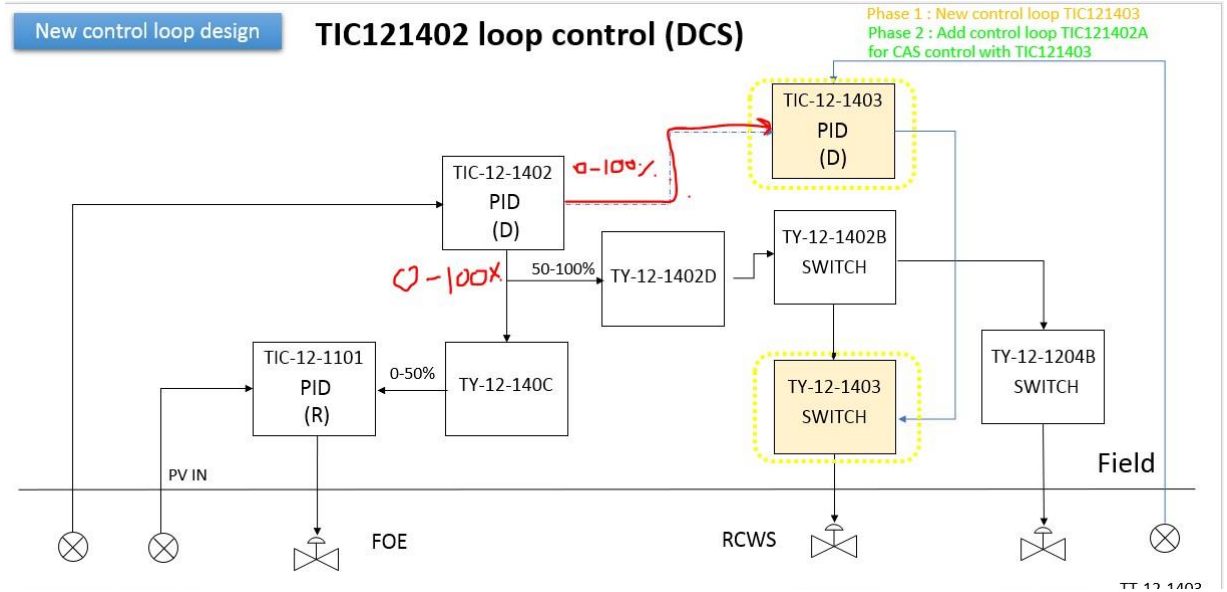
Part 1: Initiation — **TEMPORARY MoC**

Form	MoC Proposal Form 1 F-(TP-PM)-OEMS-005_R3	Initiator	PHATSORN W<T-PI-C2/3837> 20/12/2022 13:55
Attachment	1	Plant VP	THITIWAT C<PH-P1/3951>
Plant	PHENOL (PH-P1) Plant I	MoC Champion	N/A
Unit	1200 - Oxidation		
Is Maintenance			
Deadline Part 2	28/02/2023	Deadline Part 3	31/03/2023
MoC Category	Others		
Consequence	Economic (Total loss) / Severity Number (3)	Change Priority	Medium

Expired Date : 30/06/2023





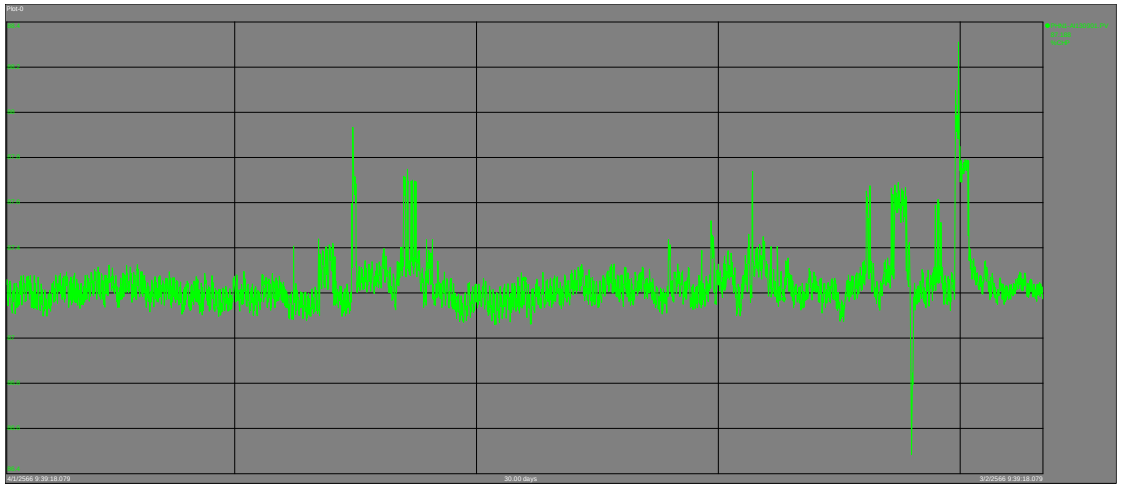


2

Advanced Process Control
>>V-1301,2

CV,MV set points → **DCS**

Project Timeline >>Jan 2023 >> Balance Heat FOE V-1301



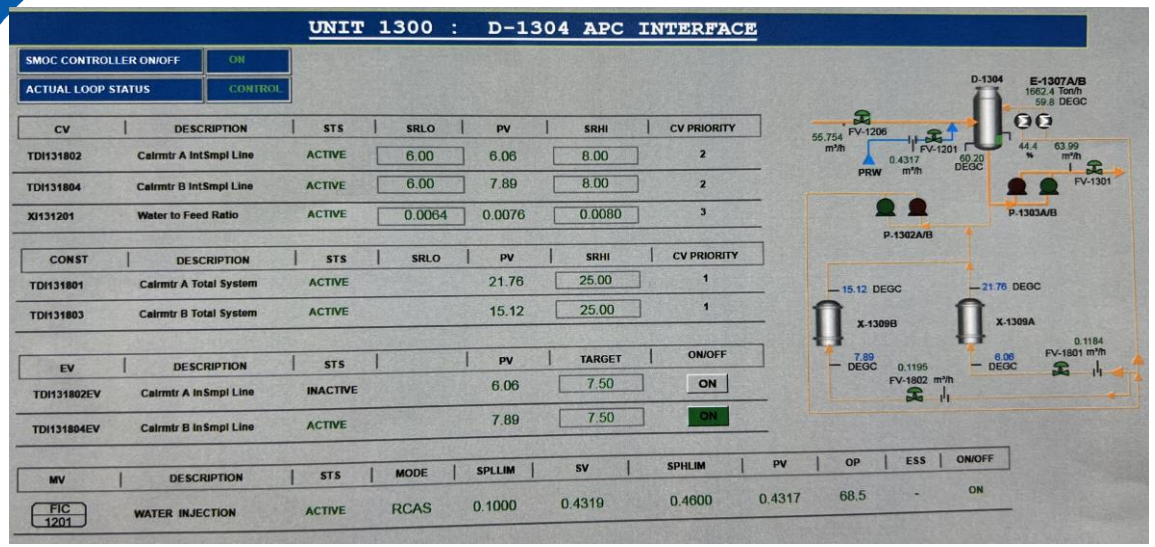
V-1301&1302 : PREFLASH COLUMN SMOC

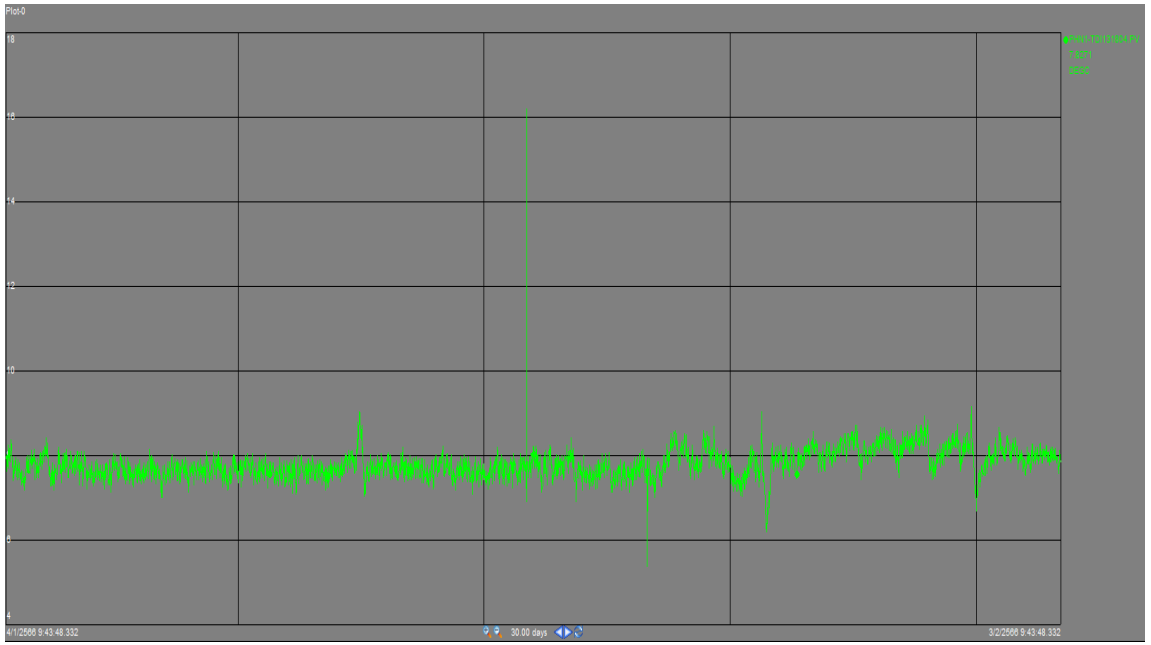
SMOC CONTROLLER ON/OFF	ON
ACTUAL LOOP STATUS	CONTROL

CV	DESCRIPTION	STS	SRLO	PV	SRHI
RQE130001	CHP IN PFC OVERHEAD	ACTIVE	0.34	0.41	1.10
RQE130002	CHP IN FC OVERHEAD	ACTIVE	0.02	0.10	0.12
RQE130003	CHP IN FC BOTTOM	ACTIVE	88.40	88.42	88.60

CONST.CV	DESCRIPTION	STS	SRLO	PV	SRHI
RFV 1301	V-1301 R/F RATIO	ACTIVE	0.112	0.124	0.150
RFV 1302	V-1302 R/F RATIO	ACTIVE	0.115	0.131	0.200

MV	DESCRIPTION	STS	MODE	SPLLIM	SV	SPHLIM	PV	OP	ESS	ON/OFF
FIC 0403	V-1301 REFLUX FLOW	ACTIVE	RCAS	23.50	23.50	24.00	23.51	37.8	■	ON
TIC 0505	V-1301 TIC0505	INACTIVE	MAN	62.00	67.76	64.50	67.76	38.2	-	OFF
FIC 0801	V-1302 REFLUX FLOW	ACTIVE	RCAS	11.00	11.00	11.50	11.01	18.2	■	ON
TIC 0703	V-1302 FEED INLET TEMP	ACTIVE	RCAS	91.20	91.7	92.00	91.8	43.1	-	ON





3

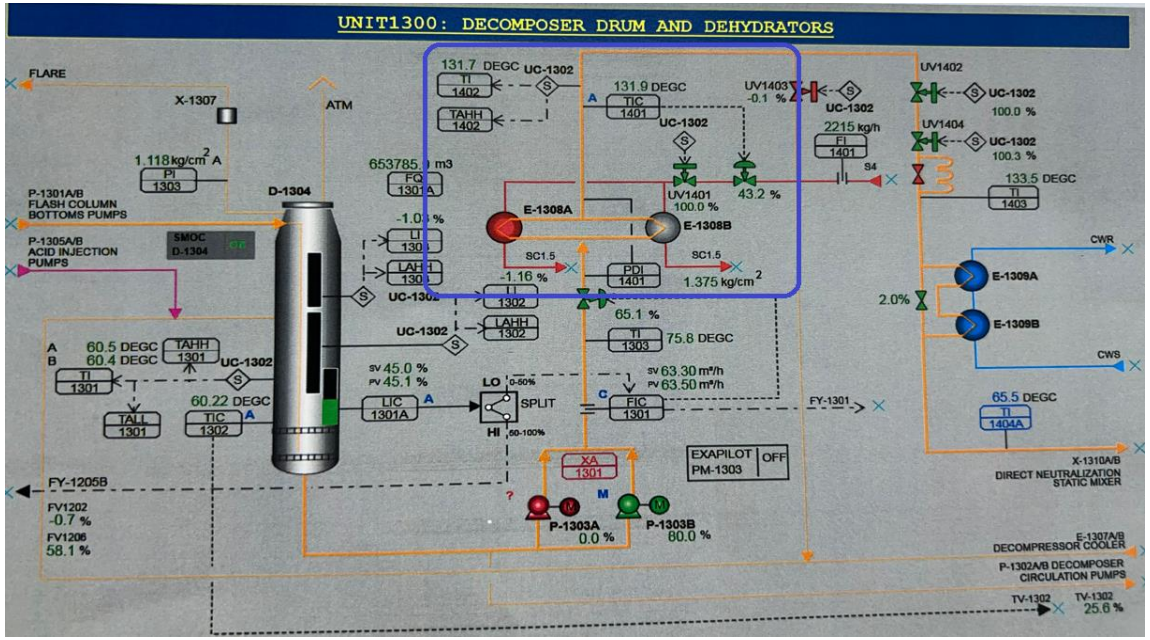
NEW

Advanced Process Control >>D-1304,**E-1308AB**

CV,MV set points → **DCS**

E-1308AB New Controller Optimum Setpoints

Project Timeline >>Jan 2023 >> New Advanced Process Control >>E-1308AB



RQE DCP>>Control TIC131401

NEW

CV,MV set points

Advanced Process Control

New Controller Optimum Setpoints (AI)

Project Timeline >>Mar ,2023