

PCP Permit To Work Course Construction Phase



ZetaRules

- Work with a valid work permit (PTW) required by the job**
Beleka menggunakan permit kerja (PTW) sah yang diperlukan
- Verify energy isolation before starting work**
Sahkan pengesangan tenaga sebelum memulakan kerja
- Obtain authorisation before overriding or disabling safety critical equipment**
Dapatkan kebenaran sebelum memintas atau mengherdikkan peralatan keselamatan kritikal
- Obtain authorisation before entering a confined space**
Dapatkan kebenaran sebelum memasuki ruang terkurung
- Protect yourself against a fall when working at height**
Lindungi diri daripada terjatuh ketika bekerja di tempat tinggi
- Use the correct personal protective equipment (PPE) when handling hazardous chemicals**
Gunakan peralatan perlindungan diri (PPE) yang betul ketika mengendalikan bahan kimia berbahaya
- Obtain authorisation before excavation or entering a trench**
Dapatkan kebenaran sebelum melakukan kerja penggalian atau memasuki parit
- Do not position yourself under a suspended load**
Jangan berada di bawah muatan tergantung
- Do not smoke outside designated areas or bring potential ignition sources into process areas without authorisation**
Jangan merokok di luar kawasan yang dibenarkan atau membawa masuk sebarang sumber pernyataan (ignition source) ke dalam kawasan proses tanpa kebenaran
- Do not use your mobile phone/walkie-talkie while driving, follow the speed limit and use your seat belt**
Jangan gunakan telefon bimbit/walkie-talkie ketika memandu, patuhi had laju dan pakai tali pinggang keselamatan

PCP PTW Construction Phase

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Permit To Work, the requirements

- ➔ Malaysia Law.
- ➔ Petronas Zero Tolerance ZeTo Rules.
- ➔ Siemens Zero Harm philosophy.
- ➔ Consortium Siemens AG/SMSB/MMC ES OHS Plan.

PCP PTW Construction Phase

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Permit To Work, system objectives

- ➔ Planned CONTROL of multiple construction activities.
- ➔ Planned CONTROL of testing, and energizing for temporary and permanent equipment.
- ➔ Ensure CONTROL of hazards introduced to the work area by energizing of temporary and permanent equipment.

Persons required to implement the PTW system

- ➔ PTW Administrator/Officer PTWA/PTWO. A Person with responsibility for coordinating and administrating of the PTW system.
- ➔ PRIOR to establishing the auxiliary power supply the administration of the PTW system is performed by CSM HSE department.
- ➔ 2 WEEKS BEFORE establishing the auxiliary power (full site power) a PTW Start Up Engineer shall be appointed.

PCP PTW Construction Phase



Persons required to implement the PTW system

- ➔ Authorized Applicant AA. A person trained and appointed by CSM to apply for CSM PTW.
- ➔ Is responsible for the correct and safe performance of the work.
- ➔ Is required to supervise the execution of work detailed on the permit.
- ➔ May perform the execution of the work themselves.
- ➔ May transfer custody of a PTW to a Local Supervisor LS by completing Section 10 of the PTW.

Persons required to implement the PTW system

- ➔ Local Supervisor LS. A person trained and appointed by CSM to receive PTW from AA.
- ➔ Must understand AA instructions and PTW content.
- ➔ Must sign relevant sections of PTW (Section 10).
- ➔ Must be at the site for the execution of the works.
- ➔ Must ensure a pre-start toolbox relating to the PTW is performed and recorded.

Persons required to implement the PTW system

- ➔ Engineer Responsible for Construction ERFC. A person trained and appointed by CSM to determine control requirements for a PTW.
- ➔ Reviews the PTW content against approved documentation.
- ➔ Confirms by signing the PTW that requirements have been assessed (Section 04).
- ➔ Perform checks on works in progress to ensure compliance to PTW, (recorded in Section 14).
- ➔ Confirms works completed by signing PTW Section 12.

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Persons required to implement the PTW system

- ➔ EHS Management EHSM. A person trained and appointed by CSM to review PTW applications.
- ➔ Confirms by signature to ERFC that relevant CSM approved documentation is available to support the PTW application and the planned works.
- ➔ Monitors works in progress and compatibility with in service permits.

PCP PTW Construction Phase

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Persons required to implement the PTW system

- ➔ Construction Manager CM. A person trained and appointed by CSM to review, release and extend completed PTW applications.
- ➔ Identifies and nominates ERFC from within respective Consortium organization.
- ➔ Releases the work for execution by signing PTW Section 08.

PCP PTW Construction Phase

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Persons required to implement the PTW system

Summary

PTWA/PTWO	<u>Permit to Work Administrator/Officer</u> , maintains PTW system.
AA	<u>Authorized Applicant</u> , request, receives, closes PTW.
LS	<u>Local Supervisor</u> , receives PTW.
ERFC	<u>Engineer Responsible for Construction</u> , defines the required controls.

PCP PTW Construction Phase



Persons required to implement the PTW system

EHSM EHS Management, confirm approved CSM documents available

CM Construction Management, releases, extend PTW.

AP Authorized Person, a person appointed by CSM to apply and reset isolations

KKS Kraftwerk Kennzeichen System , a component coding system used universally on Siemens power plants.

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Approved documents required to obtain a PTW

- ➔ A project specific activity based risk assessment reviewed and released by Consortium Site Management (CSM).
- ➔ A Method Statement OR Safe Work Procedure (e.g. Lifting Plan) approved by CSM.
- ➔ Drawings or Layout.

PCP PTW Construction Phase



Approved documents required to obtain a PTW,
Project Specific Activity Based Risk Assessment.

RISK ASSESSMENT FORM													
Company / Department:		PEK CHEW PILING		RA Leader :				Approved by:					
Process/ Location:		Site wide piling		RA Member 1:									
Original Assessment Date:		18.12.2014		RA Member 2:									
Last Review Date:				RA Member 3:									
Next Review Date		01.06.2015		RA Member 4:									
				RA Member 5:				Name, Designation, Signature, Date:					
								Ref No: MMC/PC/RA/001 Rev 0					
1. Hazard Identification				Initial Risk Index 2. Risk Evaluation				Residual Risk Index 3. Risk Control					
1a	1b	1c	1d	2a	2b	2c	2d	3a	3b	3c	3d	3e	
No.	Work Scope / Work Activity/ Sub Activity	Hazard	Possible Accident / Ill Health Persons-at-Risk / EHS impact	Implemented Risk Control	Severity	Probability	Degree Of Risk	Additional Risk Control	Severity	Probability	Degree Of Risk	Action Officer, Designation, Due Date	
1. Mobilization / Demobilization of Construction Vehicles, Plant and Equipment.													
1.1	Mobilization of Construction Vehicles, Plant and Equipment.	Vehicle collision / Overturn	Personal injury / property damage	<ul style="list-style-type: none"> Ensure qualified trailer drivers to be instructed relating to 25kph speed limit. Licensed drivers only to enter site. Ensure proper access provided (steel plate / hard core base) before entering site area. Follow before they entering worksite 	5	C	5C HIGH	<ul style="list-style-type: none"> All vehicles to be accompanied with banksmen. Drivers to follow directions of banksmen. Driver or operator must be inducted before entering the worksite. Provide 25km/h speed limit signages. 	3	B	3B LOW	Lifting Supervisor & EHS Rep	
		Falling of load during transportati on due to ground conditions	Personal injury / property damage	<ul style="list-style-type: none"> Drivers to be instructed relating to 25kph speed limit. Licensed drivers only to enter site. Workers not permitted to travel on back of lorries at any time. All material to be transported in original packaging and secured with lashing. 	5	C	5C HIGH	<ul style="list-style-type: none"> All vehicles to be accompanied with banksmen. Drivers to follow directions of banksmen. All drivers to be informed by lifting supervisor that loads are to remain secured / lashed until at point of unload. 	3	B	B3 LOW	Lifting Supervisor & EHS Rep	
		Tripping Hazard - Equipment & tools scattered.	Personal injury due to tripping.	<ul style="list-style-type: none"> Regular inspection and housekeeping to be carried out. 	2	B	2B LOW	<ul style="list-style-type: none"> Provide designated storage area 	2	A	2A LOW	Project Coordinator	

PCP PTW Construction Phase



Approved documents required to obtain a PTW, Method Statement (MS) or Safe Work Procedure (SWP)

		Doc No.	PCP-MS-OPR-002			
		Revision No.	1			
		Page	1 Of 9			
<p>PROJECT :</p> <p>PENGERANG COGEN PLANT PROJECT</p> <p>DOCUMENT TITLE :</p> <p>METHOD STATEMENT FOR PROJECT STARTER SITE OFFICE</p>						
Document Issue Record						
Rev	Issue Date	Description	Prepared By	Checked By	Reviewed By	Approved By OWNER
0	12/9/14	Issued for Approval				
			MOHD AFIQ	ALIFF FARHAN	MOHD ISHAK SIEMENS SM	

SIEMENS & MMC PCP CONSORTIUM	Pengerang Cogen Project	Crane Type: Kobelco - Mobile Crane
Company: Peck Chew Piling Sdn. Bhd.	Lifting Plan Geometric drawing	Lifting Plan no: MMC/PC/LV-002-01
		Date: 27.10.14

Crane Details	
LM No.	PMA 31541
LM Expiry	7/10/2015
Load Details	
Load net weight	3 Tonne
Main Hook	300 Kg
Auxiliary Hook	100 Kg
Lifting Gears	100 Kg
Total Weight	3.5 Ton
LM Details	
Maximum Capacity	20 Ton
Fly Jib/ Extension	N/A
Main Boom Length	2.8m
Max. Boom Angle	75°
Outrigger	Fully Extended
Maximum Work Radius	25m
Lifting Calculation	
Max load to be lifted	3.5 Ton
Safe Working Load at Safe Working Radius	23.4m - Boom 8.0m - Radius (7.20 SWL)
25% deduction of SWL	(SWL x 0.75) = 5.4 Tonne
Safety Factor	Deducted SWL / Load → 5.4 / 3.5 = 1.5
Safe Lifting Detail	
Load that can be Lifted	3.5 Ton
Safe Lifting Radius	8.0 m
Boom Angle	70°

(Size of load, rigging point, SWL and length of LG must be stated in drawing)

Sling Winch
Span Piles = 3 Tonne
8.0 m Radius

Prepared by (Name, Designation & Sign):	Mohamad Sahmi SULONG, SUPERVISOR
Reviewed by (Name, Designation & Sign):	Khairul Hafiz B. Azmi, HSE OFFICER
Approved by (Name, Designation & Sign):	Aznan Abu Bakar, Site Supervisor
Verified by CSM (Name, Designation & Sign):	ALIFF

PCP PTW Construction Phase

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Categories of work.

- ➔ Cat I, Excavation Works
- ➔ Cat II, Work In Operational Areas/ECC
- ➔ Cat III, Hot Works
- ➔ Cat IV, Radiography
- ➔ Cat V, Confined Space Works
- ➔ Cat VI, High Risk Works

PCP PTW Construction Phase



Permit application, Review and Release

SIEMENS PCP PROJECT PERMIT TO WORK		PTW No.:.....	
SECTION 1 APPLICATION	Authorized Applicant (AA)		
	Name (In Block Letters)		Company Phone No
	System (KKS):		Generic work Procedure: YES <input type="checkbox"/> if NO: Specific Method Statement / Risk Assessment Title or Number:
	Room: (KKS):		
	Type and scope of work: (Description of work, where work will take place and when)		
	Other attached Drawings or Documents. Specify: _____		
	Sect.1.a		Signature AA
	Sect.1.b		Desired date and duration:
	PTW Expiry Date:		PTW Extension Date I: PTW Extension Date II: PTW Extension Date III:
	Date/Signature con/com man		Date/Signature con/com man Date/Signature con/com man Date/Signature con/com man
Section 2 Categories			
<input type="checkbox"/> CAT I Excavation Work <input type="checkbox"/> CAT II ECC/Operational <input type="checkbox"/> CAT III Hot Work <input type="checkbox"/> CAT IV Radiography <input type="checkbox"/> CAT V Confined Spaces <input type="checkbox"/> CAT VI High Risk Activities			
Section 3 General Safety			
The following instructions show general safety requirements for Categories I to VI, taking into account site conditions and other working parties identified by the Siemens Engineer responsible for the Contractor which might not be known by the AA at the time of application			
<input type="checkbox"/> Install barriers / warning signs <input type="checkbox"/> Access and escape routes provided & kept clear <input type="checkbox"/> Individual fall protection: safety harness, stop chute, life-line safety nets etc			
<input type="checkbox"/> Mandatory Hearing Protection <input type="checkbox"/> Collective fall protection – scaffold, MEWP, scissor lift <input type="checkbox"/> Ensure compliance with special cleanliness requirements			
<input type="checkbox"/> Tools and equipment <input type="checkbox"/> Other working groups in area: <input type="checkbox"/> Electrical protection device - Residual Current Device (RCD) or Earth leakage circuit breaker (ELCB)			
<input type="checkbox"/> Other			

SIEMENS PCP PROJECT PERMIT TO WORK		PTW No.:.....	
Category I Excavation Work	Depth and width of the excavation in meters: _____		Soil category: A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>
	Attach a detailed drawing of underground services		YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
	Cat Scan required before work can start		YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
<input type="checkbox"/> Hand dig to locate underground cables and other services <input type="checkbox"/> Area closed off <input type="checkbox"/> Traffic redirection signs / traffic controller <input type="checkbox"/> Protection against excavation collapse for: Cat A / Cat B / Cat C			
Category II Work in Operational Areas	<input type="checkbox"/> High temperature <input type="checkbox"/> Explosion potential / gas tests / monitoring permanently required <input type="checkbox"/> Chemicals protective clothing or other specific PPE:		Specify
	<input type="checkbox"/> Hazardous substance residues in system <input type="checkbox"/> Other:		specify:
Category III Hot Work	<input type="checkbox"/> Fire fighting equipment <input type="checkbox"/> Post-work fire inspection Fire watch, gas watch <input type="checkbox"/> Ventilation: <input type="checkbox"/> Explosion potential / gas tests / monitoring permanently required		specify
	<input type="checkbox"/> Welding screens <input type="checkbox"/> Respiratory Protection: <input type="checkbox"/> Flying and falling spark protection <input type="checkbox"/> Other		specify
Section 4 Review			
Category IV Radiographic Examinations (See separate sheet)			
Category V confined space	Air quality / gas / explosive Atmospheres test before entry by competent person and record results on Entry and Exit Form (see attached sheet)		<input type="checkbox"/> Daily Before Entry <input type="checkbox"/> After Breaks <input type="checkbox"/> Each Entry
	<input type="checkbox"/> Continuous monitoring of O ₂ / gas monitoring / explosive atmosphere <input type="checkbox"/> Competent watchman – maintain entry exit log (attached) <input type="checkbox"/> Extraction/ventilation fan(s) in operation: <input type="checkbox"/> Lighting: extra-low voltage		specify
<input type="checkbox"/> Respiratory / Breathing Apparatus <input type="checkbox"/> Rescue and emergency procedure <input type="checkbox"/> Other		specify	
Category VI High Risk Activities			
Permits for High Risk Activities are defined in the Site Instructions or can be specifically instructed by SSM on a case by case basis. (e.g. complex lifting operation, opening of gratings or handrails, handling of chemicals, pressure testing with gas, work in or close to exclusion zones, working in dangerous atmosphere, working at external interfaces, marine work)			
If in doubt contact the Permit To Work Office			
Additional Documentation (e.g. Crane Lifting Plan, MSDS, Layout of Exclusion Zones, marked platform drawing)			
Specific General Safety Measures			
Section 4 Review			
The AA's MSRA and PTW categories have been reviewed			
Engineer responsible for contractor (ERFC)		Name, Date, Time, Signature	
EHS Manager		Name, Date, Time, Signature	

PCP PTW Construction Phase



Permit application, Review and Release

SIEMENS PCP PROJECT PERMIT TO WORK PTW No.:.....

Section 5 Appointment	Appointed Senior Authorized Person Name, Company _____	
	Appointment by Commissioning Management Name, Date, Time, Signature _____	
Section 6 Safety from the System - Measures	Isolation::	System -specific EHS measures:
	Isolation list: YES <input type="checkbox"/> NO <input type="checkbox"/> Component(s) to be isolated: _____	<input type="checkbox"/> drained <input type="checkbox"/> de-energized/isolated <input type="checkbox"/> vented <input type="checkbox"/> grounded/short-circuited <input type="checkbox"/> purged/flushed <input type="checkbox"/> de-pressurised <input type="checkbox"/> breaking vacuum <input type="checkbox"/> other _____
	Actions defined by (Senior Authorized Person) Name, Date, Signature _____	Approval by Commissioning Manager: Name, Date, Time, Signature _____
Section 7 Implementation	Confirmation of release and implementation of General Safety Measures and Isolation Actions to obtain Safety from the System	Release by Commissioning Manager/ Shift Supervisor: _____ Mechanical systems: Action implemented _____ Electrical systems: Action implemented _____
	Senior Authorized Person	System-specific EHS measures implemented: Name, Date, Time, Signature _____
Section 8 Work release	Work released by	_____
	Commissioning Manager or Shift Supervisor or Construction Manager	Name, Date, Time, Signature _____
Section 9 Performance of work	I the AA am fully responsible for the safe execution of the work under this permit. I understand and will instruct the Local Supervisor on the General Safety requirements and measures taken to achieve Safety from the System detailed in this document and attachments and I will ensure that:	
	a. The Local Supervisor gives a tool box talk on the contents of this document to the working party and b. the attached tool box sheet is signed. Authorized Applicant _____ Name, Date, Time, Signature _____	

SIEMENS PCP PROJECT PERMIT TO WORK PTW No.:.....

Section 10 Transfer Record	LS and AA have to transfer the PTW document as if it was the first time the PTW document had been issued					
	LS receiving Document		LS Surrendering Document		AA reissuing Document	LS receiving reissued Document
	Name Signature,	Date, Time	Name Signature,	Date, Time	Name Signature,	Name Signature,
Section 11 Work completed	I the AA confirms that all persons working under this Permit have been withdrawn from the Plant / Apparatus / Area covered in Section 1. All equipment, tools and loose material have been removed and guards and access doors have been replaced, except for:					
	Authorized Applicant _____ Name, Date, Time, Signature _____					
Section 12	Confirmation of Work completion, Resetting and restoration of Operational readiness if required.					Name, Date, Time, Signature _____
	Senior Authorized Person or ERFC for general safety only					
Section 13 Resetting and restoration of operational readiness	Release by Siemens shift supervisor/SAP commissioning _____					
	Mechanical systems: Action implemented _____					
	Electrical systems: Action implemented _____					
	Name, Date, Time, Signature _____					
	Operational readiness restored and if applicable, functional test performed YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>					
Section 14 PTW Spot Check	Comments: _____					
	Shift Supervisor informed of system readiness YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>					
	Senior Authorized Person: Name, Date, Time, Signature _____					
Section 14 PTW Spot Check	Name	Date & Time	Signature	Comments		

PCP PTW Construction Phase



Permit application, Review and Release

SIEMENS PCP PROJECT PERMIT TO WORK PTW No. **009**

SECTION 1 APPLICATION

Authorized Applicant (AA)

Name (In Block Letters) Company Phone No

System (KKS): Generic work Procedure: YES if NO: Specific Method Statement / Risk Assessment Title or Number:

Room: (KKS):

Type and scope of work: (Description of work, where work will take place and when)

Other attached Drawings or Documents. Specify:

Desired date and duration: Signature AA

Section 1b

PTW Expiry Date: **11/01/2015**

PTW Extension Date I:

PTW Extension Date II:

PTW Extension Date III:

Date: [Signature] Date/Signature con/com man Date/Signature con/com man Date/Signature con/com man

Section 2 Categories

CAT I Excavation Work

CAT II ECC/Operational

CAT III Hot Work

CAT IV Radiography

CAT V Confined Spaces

CAT VI High Risk Activities

Section 3 General Safety

The following instructions show general safety requirements for Categories I to VI, taking into account site conditions and other working parties identified by the Siemens Engineer responsible for the Contractor which might not be known by the AA at the time of application

<input checked="" type="checkbox"/> Install barriers / warning signs Specify	<input type="checkbox"/> Access and escape routes provided & kept clear specify	<input type="checkbox"/> Individual fall protection: safety harness, stop chute, life-line safety nets etc Specify
<input type="checkbox"/> Mandatory Hearing Protection Specify	<input type="checkbox"/> Collective fall protection – scaffold, MEWP, scissor lift specify	<input type="checkbox"/> Ensure compliance with special cleanliness requirements Specify
<input type="checkbox"/> Tools and equipment specify	<input type="checkbox"/> Other working groups in area: specify	<input type="checkbox"/> Electrical protection device - Residual Current Device (RCD) or Earth leakage circuit breaker (ELCB)
<input type="checkbox"/> Other		

AA completes application in blue ink until Section 1a and pass to PTWA/PTWO.

PTWA/PTWO checks application, Confirms approved documents, **ISSUES PTW NUMBER**, forwards to ERFC for review and definition of controls

ERFC defines works categories, Identifies general safety requirements e.g. Coordinating of activities in Section 2 & 3 and signs at Section 4.

PCP PTW Construction Phase



Permit application, Review and Release

SIEMENS PCP PROJECT PERMIT TO WORK PTW No.: **009**

Category I Excavation Work	Depth and width of the excavation in meters: _____		Soil category: A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>					
	Attach a detailed drawing of Underground services		YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>					
	Cat Scan required before work can start		YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>					
<input type="checkbox"/>	Hand dig to locate underground cables and other services	<input type="checkbox"/>	Area closed off	<input type="checkbox"/>				
		<input type="checkbox"/>	Traffic redirection signs / traffic controller	<input type="checkbox"/>				
		Protection against excavation collapse for: Cat A / Cat B / Cat C						
Category II Work in Operational Areas	<input type="checkbox"/>	High temperature	<input type="checkbox"/>	Explosion potential / gas tests / monitoring permanently required	<input type="checkbox"/>	Chemicals protective clothing or other specific PPE:		
		Specify control measure:				specify		
<input type="checkbox"/>	Hazardous substance residues in system	<input type="checkbox"/>	Other:					
	specify:							
Category III Hot Work	<input type="checkbox"/>	Fire fighting equipment	<input type="checkbox"/>	Post-work fire inspection Fire watch, gas watch	<input type="checkbox"/>	Ventilation: specify	<input type="checkbox"/>	Explosion potential / gas tests / monitoring permanently required
		Specify						
<input type="checkbox"/>	Welding screens	<input type="checkbox"/>	Respiratory Protection: specify	<input type="checkbox"/>	Flying and falling spark protection	<input type="checkbox"/>	Other	
Category IV Radiographic Examinations (See separate sheet)								
Category V Confined Space	Air quality / gas / explosive Atmospheres test before entry by competent person and record results on Entry and Exit Form (see attached sheet)				<input type="checkbox"/>	Daily Before Entry		
	<input type="checkbox"/>	Continuous monitoring of O ₂ / gas monitoring / explosive atmosphere	<input type="checkbox"/>	Competent watchman – maintain entry exit log (attached)	<input type="checkbox"/>	Extraction/Ventilation fan(s) in operation: specify	<input type="checkbox"/>	Lighting: extra-low voltage
		specify:		specify				
<input type="checkbox"/>	Respiratory / Breathing Apparatus	<input type="checkbox"/>	Rescue and emergency procedure	<input type="checkbox"/>	Other			
	specify:							
Category VI High Risk Activities	Permits for High Risk Activities are defined in the Site Instructions or can be specifically instructed by SSM on a case by case basis. (e.g. complex lifting operation, opening of gratings or handrails, handling of chemicals, pressure testing with gas, work in or close to exclusion zones, working in dangerous atmosphere, working at external interfaces, marine work)							
	If in doubt contact the Permit To Work Office							
	Additional Documentation (e.g. Crane Lifting Plan, MSDS, Layout of Exclusion Zones, marked platform drawing)							
All lifting with 70Te crane inside exposed trench to be directly supervised by lifting supervisor at all times.								
Specific General Safety Measures								
Section 4 Review	The AA's MSRA and PTW categories have been reviewed							
	Engineer responsible for contractor (ERFC)				Name, Date, Time, Signature			
	EHS Manager				Name, Date, Time, Signature			

ERFC specifies controls by circling or entering written narrative

ERFC specifies controls by circling or entering written narrative

ERFC and EHS Manager print names, date, time and sign confirmation specifies controls by circling or entering written narrative

PCP PTW Construction Phase



Permit application, Review and Release

SIEMENS PCP PROJECT PERMIT TO WORK		PTW No. 009
Section 5 Appointment	Appointed Senior Authorized Person Name, Company _____	
	Appointment by Commissioning Management Name, Date, Time, Signature _____	
Section 6 Safety from the System - Measures	Isolation list: YES <input type="checkbox"/> NO <input type="checkbox"/>	System-specific EHS measures:
	Component(s) to be isolated:	<input type="checkbox"/> drained <input type="checkbox"/> de-energized/isolated <input type="checkbox"/> vented <input type="checkbox"/> grounded/short-circuited <input type="checkbox"/> purged/flushed <input type="checkbox"/> de-pressurised <input type="checkbox"/> breaking vacuum <input type="checkbox"/> other _____
	Actions defined by (Senior Authorized Person) Name, Date, Signature _____	Approval by Commissioning Manager: Name, Date, Time, Signature _____
Section 7 Implementation	Confirmation of release and implementation of General Safety Measures and Isolation Actions to obtain Safety from the System	Release by Commissioning Manager/ Shift Supervisor: _____
		Mechanical systems: Action implemented _____
		Electrical systems: Action implemented _____
	Senior Authorized Person	System-specific EHS measures implemented: Name, Date, Time, Signature _____
Section 8 Work release	Work released by Commissioning Manager or Shift Supervisor or Construction Manager	_____ Name, Date, Time, Signature
	I the AA am fully responsible for the safe execution of the work under this permit. I understand and will instruct the Local Supervisor on the General Safety requirements and measures taken to achieve Safety from the System detailed in this document and attachments and I will ensure that: <ol style="list-style-type: none"> The Local Supervisor gives a tool box talk on the contents of this document to the working party and the attached tool box sheet is signed. 	
Section 9 Performance of work	Authorized Applicant _____ Name, Date, Time, Signature	

Construction Manager enters expiry date (Section 1b) prints name, date, time and signs WORK release at Section 8

Authorized Applicant prints name, date, time and signs accepting PTW at Section 9, PTW NOW IN SERVICE

PCP PTW Construction Phase



Permit application, Review and Release

SIEMENS PCP PROJECT PERMIT TO WORK PTW No. **009**

Section 10 Transfer Record

LS and AA have to transfer the PTW document as if it was the first time the PTW document had been issued						
LS receiving Document		LS Surrendering Document		AA reissuing Document	LS receiving reissued Document	
Name Signature,	Date, Time	Name Signature,	Date, Time	Name Signature,	Name Signature,	Time Date

Section 11 Work completed

I the AA confirms that all persons working under this Permit have been withdrawn from the Plant / Apparatus / Area covered in Section 1. All equipment, tools and loose material have been removed and guards and access doors have been replaced, except for:

Authorized Applicant _____
Name, Date, Time, Signature _____

Sect. 12

Confirmation of Work completion. Resetting and restoration of Operational readiness if required.

Senior Authorized Person or ERFC for general safety only _____
Name, Date, Time, Signature _____

Section 13 Resettling and restoration of operational readiness

Release by Siemens shift supervisor/SAP commissioning _____

Mechanical systems: Action implemented _____

Electrical systems: Action implemented _____

Name, Date, Time, Signature

Operational readiness restored and if applicable, functional test performed YES NO N/A

Comments: _____

Shift Supervisor informed of system readiness YES NO N/A

Senior Authorized Person: _____
Name, Date, Time, Signature _____

Section 14 PTW Spot Check

Name	Date & Time	Signature	Comments

AA records transfer of custody of PTW to Local Supervisor (If required)

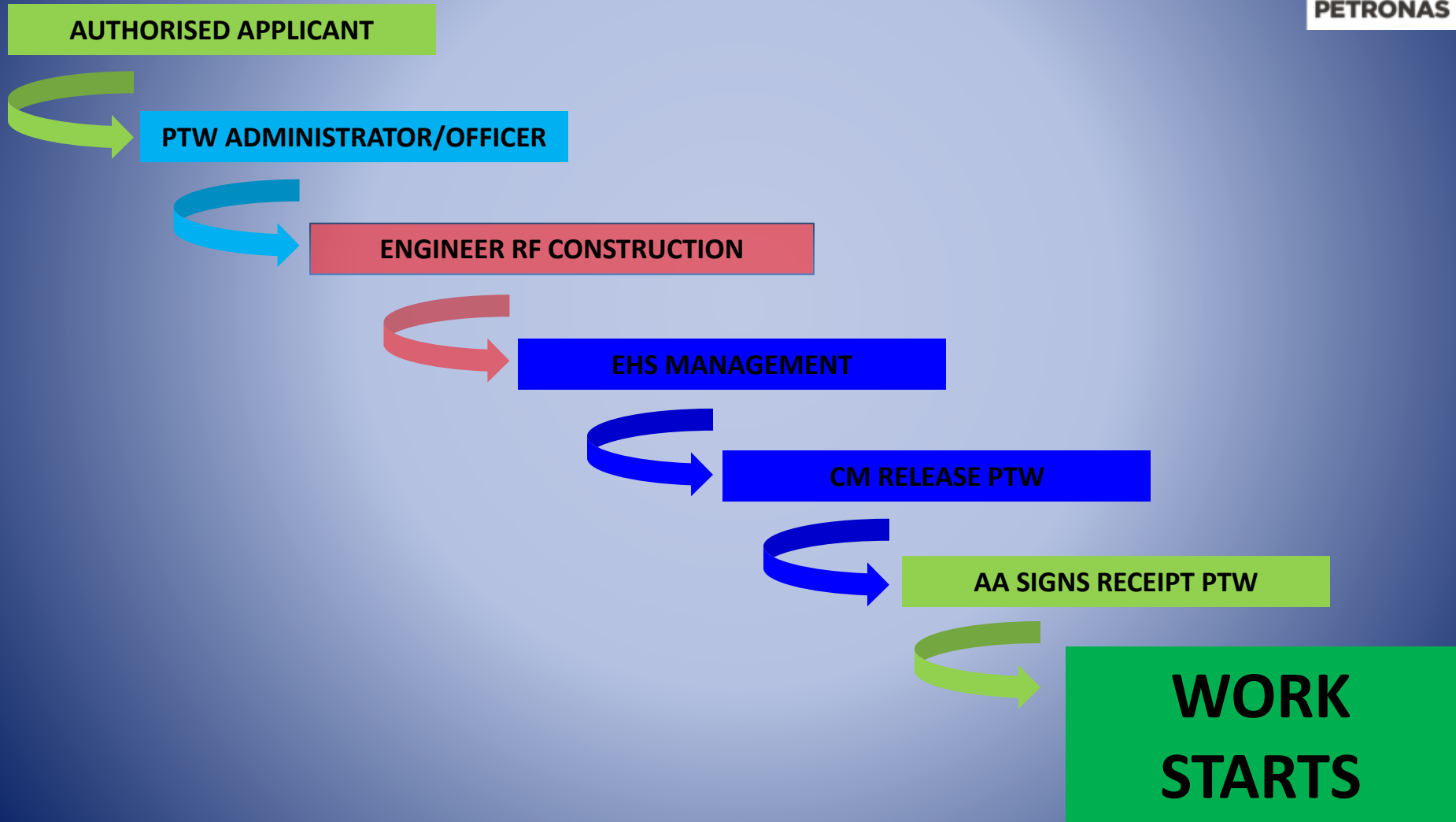
AA signs to confirm PTW CLOSED

Record of spot checks of works execution, EHS / ERFC / CSM

PCP PTW Construction Phase



PERMIT TO WORK FLOW



PCP PTW Construction Phase



Permit Extensions

SIEMENS		PCP PROJECT		PERMIT TO WORK		PTW No.:.....										
Authorized Applicant (AA)																
Name (In Block Letters)		Company			Phone No											
System (KKS):		Generic work Procedure: YES <input type="checkbox"/> if NO:														
Room: (KKS):		Specific Method Statement / Risk Assessment Title or Number:														
Type and scope of work: (Description of work, where work will take place and when)																
<table border="1"> <tr> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">Sect.1b</td> <td>PTW Expiry Date:</td> <td colspan="3">25/01/2015</td> </tr> <tr> <td>Date/Signature</td> <td colspan="3">18/01/2015</td> </tr> </table>								Sect.1b	PTW Expiry Date:	25/01/2015			Date/Signature	18/01/2015		
Sect.1b	PTW Expiry Date:	25/01/2015														
	Date/Signature	18/01/2015														
Other attached Drawings or Documents. Specify:																
Sect.1a	05/01/2015 Two Weeks															
	Desired date and duration:			Signature AA												
Sect.1b	PTW Expiry Date:	PTW Extension Date I:	PTW Extension Date II:	PTW Extension Date III:												
	11/01/2015	18/01/2015	25/01/2015	01/02/2015												
05/01/2015		11/01/2015		18/01/2015		25/01/2015										

All in service PTW are entered to expire on Sunday evenings. In Service PTW are recalled every THURSDAY for review by CSM and close/extension

PTWA/PTWO recalls in service PTW from AA 10:00 every Thursday. PTWA/PTWO give to Construction Manager and enters next expiry date and signs

Construction Manager signs to Confirm 7 day extension

PCP PTW Construction Phase

SIEMENS



Permit Database, Record Entry, Reporting

SIEMENS *Pengerang PCP*

PTW-Database

-  **Pengerang PCP PTW Database**
-  **Open PTW Reports/ List of Responsible Persons**
-  **Registration of Authorised Applicants**
-  **Registration of Senior Authorised Persons**
-  **Registration of Persons Authorised for Switching Actions**
-  **Registration of Companies**
-  **Close Database** 

PCP PTW Construction Phase



Permit Database, Record Entry, Reporting

SIEMENS *Pengerang PCP*

Report: PTWs out for Works

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PTW-C

PTW Nr.	Issuing Date	Expiry Date	KKS	Work Description	Applicant	Company	Outage required
	Work Completed	Closing Date	Location		Senior Authorised P.	Remarks	
PTW-Nr.: 692	1/24/2014	2/23/2014	10UMC Turbine building	generator pre alignment and peripherals assembly work.	M. RADHA BEN DODDS	D&Y RA_035	
PTW-Nr.: 693	1/24/2014	2/23/2014	10UMC Turbine Building	Condenser peripherals assembly work.	M. RADHA BEN DODDS	D&Y RA_040, LP_10.10, LP_016.01	
PTW-Nr.: 694	1/24/2014	2/23/2014	UEY UEY	Insyallation of BOP piping, its support and welding, cutting and scaffolding at UEY area.	ABDUL SALAM DOMINIK RICHTSCHE ID	JEL RA_013, LP_014.28	
PTW-Nr.: 695	1/24/2014	2/23/2014	00UEJ Oil tank	Installation of BOP piping, its support and welding, cutting and scaffolding at UEJ area.	ABDUL SALAM DOMINIK RICHTSCHE ID	JEL RA_013,LP_014.28	
PTW-Nr.: 696	1/24/2014	2/23/2014	10UMY	Installation of BOP piping, its support and welding, cutting and scaffolding at 10UMY area	ABDUL SALAM DOMINIK RICHTSCHE ID	JEL RA_013, LP_014.28	
PTW-Nr.: 697	1/24/2014	2/23/2014	ULA ULA area	Installation of BOP piping, its support and welding, cutting and scaffolding at ULA area	ABDUL SALAM DOMINIK RICHTSCHE ID	JEL RA_013, LP_014.28	
PTW-Nr.: 699	1/24/2014	2/23/2014	Laydown Area	Welding work at laydown area	WENDELL SUAREZ TIMO NOLTE	E&I APECO RA_002	
PTW-Nr.: 700	1/24/2014	2/23/2014	UBA	Installation of cable trays supports system at UBA area	P. MUTHU TIMO NOLTE	E&I APECO RA_008	
PTW-Nr.: 701	1/24/2014	2/23/2014	UEY&10UMY UEY&10UMY	Installation of cable tray support system at 10UEY & 10UMY area	MUTHU TIMO NOLTE	E&I APECO RA_008	
PTW-Nr.: 702	1/24/2014	2/23/2014	10UMY & 10UEY	Scaffold erection at 10UMY and 10UEY	P. MUTHU TIMO NOLTE	E&I APECO RA_010 Rev 4	
PTW-Nr.: 703	1/24/2014	2/23/2014	10UMC Turbine building	Scaffold erection at 10UMC arae	P. MUTHU TIMO NOLTE	E&I APECO RA_010 Rev B	

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PCP Permit To Work Course Construction Phase

Thank You!!!

