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6 October 2011  
P.U. (A) 341

# WARTA KERAJAAN PERSEKUTUAN

## *FEDERAL GOVERNMENT GAZETTE*

**PERINTAH KILANG DAN JENTERA (PENGECCUALIAN  
KEPADA TITAN PETCHEM (M) SDN.BHD. PASIR GUDANG,  
JOHOR) (BD DAN OCU PLANTS-PAKEJ 1) 2011**

***FACTORIES AND MACHINERY (EXEMPTION TO TITAN  
PETCHEM (M) SDN.BHD., PASIR GUDANG, JOHOR) (BD AND  
OCU PLANTS-PACKAGE 1) ORDER 2011***



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ATTORNEY GENERAL'S CHAMBERS

## AKTA KILANG DAN JENTERA 1967

## PERINTAH KILANG DAN JENTERA (PENGECCUALIAN KEPADA TITAN PETCHEM (M) SDN.BHD., PASIR GUDANG, JOHOR) (BD DAN OCU PLANTS-PAKEJ 1) 2011

PADA menjalankan kuasa yang diberikan oleh subseksyen 55(3) Akta Kilang dan Jentera 1967 [*Akta 139*], Menteri membuat perintah yang berikut:

**Nama**

1. Perintah ini bolehlah dinamakan **Perintah Kilang dan Jentera (Pengeccualian kepada Titan Petchem (M) Sdn. Bhd., Pasir Gudang, Johor) (BD dan OCU Plants-Pakej 1) 2011.**

**Pengeccualian**

2. Semua bejana tekanan tidak berapi yang didaftarkan dengan Ketua Pemeriksa, dengan nombor pendaftaran dan perihalan yang dinyatakan dalam ruang (1) dan (2) Jadual, atas nama Titan Petchem (M) Sdn Bhd., Pasir Gudang, Johor berkenaan dengan BD dan OCU Plants-Pakej 1 yang telah diberikan perakuan kelayakan, dikeccualikan daripada persediaan yang dikehendaki di bawah perenggan 17(*b*) Peraturan-Peraturan (Pemberitahu, Perakuan Kelayakan dan Pemeriksaan) Kilang dan Jentera 1970 [*P.U. (A) 43/1970*] bagi pemeriksaan ulangan yang berikutnya selepas tarikh habisnya tempoh perakuan kelayakan itu pada 14 Februari 2011.

**Syarat pengeccualian**

3. Pengeccualian di bawah perenggan 2 tertakluk kepada syarat bahawa semua bejana tekanan tidak berapi yang dinyatakan dalam Jadual menjalani pemeriksaan luaran dan ujian tanpa musnah dan Pemeriksa berpuas hati dengan keputusan pemeriksaan dan ujian itu.

## JADUAL

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal dan Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
PMT 117918	Reaktor Penghidrogenan Pirolisis Gasolin
JH PMT 10294	Pemisah
JH PMT 10364	Tangki Penyimpan A
JH PMT 10365	Tangki Penyimpan B
JH PMT 10366	Penyejuk Butadiena
JH PMT 10368	Penyejuk Butadiena
JH PMT 10369	Gelendong Ketuk Keluar
JH PMT 4961	Penerima Pelarut Terjana Semula
JH PMT 4962	Pemeluwap Sesendal Asetilena
JH PMT 4963	Pot Peluwap
JH PMT 4965	Pot Peluwap
JH PMT 4966	Pelenting Kedap Tangki Penerima
JH PMT 4967	Pemeluwap Pelarut Terjana Semula
JH PMT 4968	Penumpuk
JH PMT 4971	Penyejuk Kitar Semula C4
JH PMT 4972	Penyejuk Pembersihan C4
JH PMT 4973	Pot Peluwap
JH PMT 4974	Penyejuk Penyahisobutana bawah
JH PMT 4975	Gelendong Agen Antibusa
JH PMT 4976	Penyejuk Sisa Air
JH PMT 4978	Penyejuk Peluwap
JH PMT 4979	Pot Peluwap
JH PMT 4981	Perhimpunan Penyejuk Keluaran Trim Propilena
JH PMT 4982	Penyejuk Gas
JH PMT 4983	Penyejuk
JH PMT 4984	Penukar Haba Suapan
JH PMT 4985	Bolong Pemeluwap Stim Tekanan Rendah.
JH PMT 4986	Gelendong Perencat Keluaran

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal dan Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
JH PMT 4987	Pemanas
JH PMT 4989	Penyejuk
JH PMT 4990	Pengulang Didih Penyahetilena
JH PMT 4991	Pengulang Didih Penypropilena
JH PMT 4992	Pemeluwap Pelurut Sisa Air
JH PMT 4993	Pengewap
JH PMT 4994	Penumpuk Penjanaan Semula NMP
JH PMT 4995	Pengandung Pengumpulan
JH PMT 4996	Pemanas Pelarut
JH PMT 6107	Pengewap Suapan
JH PMT 6108	Pengewap Suapan #1
JH PMT 6109	Penyejuk Pelarut
JH PMT 6110	Penyejuk Pelarut
JH PMT 6111	Pemeluwap Sesendal Utama
JH PMT 6112	Pemeluwap Sesendal Lanjut
JH PMT 6113	Penukar Pemanas Pelarut
JH PMT 6114	Penukar Haba Pelarut
JH PMT 6115	Penukar Haba Pelarut
JH PMT 6116	Pengulang Didih Penyahgas
JH PMT 6117	Penyejuk Air & Pelarut
JH PMT 6119	Penyejuk Air & Pelarut
JH PMT 6123	Asetilena C4
JH PMT 6128	Turus Pengulang Didih Propina
JH PMT 6152	Turus Pengulang Didih Butadiena
JH PMT 6153	Pendingin Keluaran Butadiena
JH PMT 6154	Penapis Bawah Turus Propina
JH PMT 6155	Penapis Bawah Turus Propina
JH PMT 6156	Penapis Perencat Keluaran
JH PMT 6157	Sesendal Utama
JH PMT 6158	Penerus/Turus Sesendal Lanjut

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal dan Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
JH PMT 6159	Penyahgas
JH PMT 6160	Sesendal Asetilena
JH PMT 6161	Sesendal Sekunder Asetilena
JH PMT 6162	Turus Pendinginan
JH PMT 6165	Turus Air Sesendal
JH PMT 6166	Sokong Air Sesendal
JH PMT 6167	Gelendong Pengewapan Suapan
JH PMT 6168	Penumpuk Sesendal Utama
JH PMT 6169	Penumpuk Sesendal Lanjut
JH PMT 6176	Gelendong Perencat Pelarut
JH PMT 6178	Penumpuk Pelurut Sisa Sesendal
JH PMT 6179	Gelendong Kilat Peluwap
JH PMT 6180	Gelendong Air Terbaja
JH PMT 6183	Penyahisobutein
JH PMT 6184	Pemeluwap Penyahisobutein
JH PMT 6185	Pemeluwap Penyahisobutein
JH PMT 6186	Pemeluwap Bolong Penyahisobutein
JH PMT 6187	Reaktor DP Suapan/Penukar Kumbah
JH PMT 6188	Penyejuk Kumbah DP Reaktor
JH PMT 6190	Pemanas Elektrik Gas Penjanaan Semula
JH PMT 6191	Penapis Kumbah Pemulih Suapan C4
JH PMT 6192	Penapis Kumbah Pemulih Suapan C4
JH PMT 6193	Pemulih Suapan Etilena/Penapis Kumbah
JH PMT 6194	Pemulih Suapan Etilena/Penapis Kumbah
JH PMT 6195	Pemanas Pemulih Suapan Etilena
JH PMT 6196	Pendingin Suapan Penyahetilena
JH PMT 6197	Pendingin Suapan Penyahetilena
JH PMT 6198	Pemeluwap Penyahpropilena
JH PMT 6199	Pemanas Nyala Kering
JH PMT 6200	Reaktor SHU

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
JH PMT 6202	Reaktor DP
JH PMT 6204	Reaktor DP
JH PMT 6205	Penyahisobutein
JH PMT 6206	Penyahisoetilena
JH PMT 6207	Pnyahpropilena
JH PMT 6208	Gelendong Pemisah Reaktor SHU
JH PMT 6209	Gelendong Refluk penyahisobutein
JH PMT 6210	Pot Pemisah Minyak Kedap
JH PMT 6211	Pot Saliran Minyak Kedap
JH PMT 6212	Pemeluwap
JH PMT 6213	Penapis Keluaran Perencat
JH PMT 6214	Pemeluwap
JH PMT 6215	Penerima Angin
JH PMT 6216	Penerima Angin
JH PMT 6217	Penerima Angin
JH PMT 6218	Penerima Angin
JH PMT 6219	Penerima Angin
JH PMT 6220	Gelendong pemisah
JH PMT 6221	Pemulih Suapan C4
JH PMT 6222	Pemulih Suapan C4
JH PMT 6223	Pemulih Suapan Etilena
JH PMT 6224	Pemulih Suapan Etilena
JH PMT 6225	Gelendong Pusuan C4 Baru/Kitar Semula
JH PMT 6226	Gelendong Saliran Penjanaan Semula
JH PMT 6227	Gelendong Refluks Penyahetilena
JH PMT 6228	Gelendong Refluks Penyahetilena
JH PMT 6229	Gelendong Peluwap LP Stim
JH PMT 6230	Pemisah Minyak
JH PMT 6231	Pemisah Minyak
JH PMT 6232	Penerima Tekanan Tinggi

(1)	(2)
<i>No. Pendaftaran</i>	<i>Perihal Dandang Stim dan Bejana Tekanan Tidak Berapi</i>
JH PMT 6233	Subpenyejuk
JH PMT 6234	Gelendong Sedutan Ketuk Keluar
JH PMT 6235	Gelendong Sedutan Ketuk Keluar
JH PMT 6236	Penyejuk Minyak
JH PMT 6237	Penyejuk Minyak
JH PMT 6238	Pemeluwap
JH PMT 6239	Subpenyejuk
JH PMT 6240	Pemeluwap
JH PMT 6241	Tangki Minyak
JH PMT 6242	Penerima Angin
JH PMT 6243	Penerima Angin
JH PMT 6244	Penerima Angin
JH PMT 6245	Penerima Angin
JH PMT 6246	Penerima Angin
JH PMT 6247	Penapis
JH PMT 6248	Penerima Angin
JH PMT 6249	Pengering Angin
JH PMT 6250	Pengering Angin
JH PMT 6251	Pemisah Air
JH PMT 6252	Pemisah Air

Dibuat 27 September 2011  
 [KSM/PUU/T/01/02/03 Jld.14; PN(PU2)235/XXXI]

DATUK DR. SUBRAMANIAM A/L K.V. SATHASIVAM  
*Menteri Sumber Manusia*

FACTORIES AND MACHINERY ACT 1967

FACTORIES AND MACHINERY (EXEMPTION TO TITAN PETCHEM (M) SDN.BHD., PASIR GUDANG, JOHOR) (BD AND OCU PLANTS-PACKAGE 1)ORDER 2011

IN exercise of the powers conferred by subsection 55(3) of the Factories and Machinery Act 1967 [*Act 139*], the Minister makes the following order:

**Citation**

1. This order may be cited as the **Factories and Machinery (Exemption to Titan Petchem (M) Sdn. Bhd., Pasir Gudang, Johor) (BD and OCU Plants-Package 1) Order 2011**.

**Exemption**

2. All unfired pressure vessels registered with the Chief Inspector, with the registration number and description as specified in columns (1) and (2) of the Schedule, in the name of Titan Petchem (M) Sdn. Bhd., Pasir Gudang, Johor in respect of BD and OCU Plants-Package 1 which have been issued with certificates of fitness, are exempted from the preparation required under paragraph 17(*b*) of the Factories and Machinery (Notification, Certificate of Fitness and Inspection) Regulations 1970 [*P.U. (A) 43/1970*] for subsequent regular inspection after the expiry of such certificates of fitness as on 14 February 2011.

**Condition of exemption**

3. The exemption under paragraph 2 is subject to the condition that all of the unfired pressure vessels as specified in the Schedule undergo an external inspection and non-destructive tests and the Inspector is satisfied with the result of such inspection and tests.

## SCHEDULE

(1)	(2)
<i>Registration No.</i>	<i>Description of Unfired Pressure Vessels</i>
PMT 117918	Pyrolysis Gasoline Hydrogenation Reactor
JH PMT 10294	Separator
JH PMT 10364	Storage tank A
JH PMT 10365	Storage tank B
JH PMT 10366	Butadiene Cooler
JH PMT 10368	Butadiene Cooler
JH PMT 10369	Knock Out Drum
JH PMT 4961	Regenerated Solvent Receiver
JH PMT 4962	Acetylene Washer Condenser
JH PMT 4963	Condensate Pot
JH PMT 4965	Condensate Pot
JH PMT 4966	Ejector Seal Tank Receiver
JH PMT 4967	Regenerated Solvent Condenser
JH PMT 4968	Accumulator
JH PMT 4971	C4 Recycle Cooler
JH PMT 4972	C4 Purge Cooler
JH PMT 4973	Condensate Pot
JH PMT 4974	Deisobutenizer Bottoms Cooler
JH PMT 4975	Antifoam Agent Drum
JH PMT 4976	Waste Water Cooler
JH PMT 4978	Condensate Cooler
JH PMT 4979	Condensate Pot
JH PMT 4981	Propylene Product Trim Cooler Assembly
JH PMT 4982	Gas Cooler
JH PMT 4983	Cooler
JH PMT 4984	Feed Heat Exchanger
JH PMT 4985	Low Pressure Steam Vent Condenser
JH PMT 4986	Product Inhibitor Drum

(1)	(2)
<i>Registration No.</i>	<i>Description of Unfired Pressure Vessels</i>
PMT 117918	Pyrolysis Gasoline Hydrogenation Reactor
JH PMT 10294	Separator
JH PMT 10364	Storage tank A
JH PMT 10365	Storage tank B
JH PMT 10366	Butadiene Cooler
JH PMT 4987	Heater
JH PMT 4989	Cooler
JH PMT 4990	Deethylenizer Reboiler
JH PMT 4991	Depropylenizer Reboiler
JH PMT 4992	Waste Water Stripper Condenser
JH PMT 4993	Vapourizer
JH PMT 4994	NMP Regeneration Accumulator
JH PMT 4995	Collection Vessel
JH PMT 4996	Solvent Heater
JH PMT 6107	Feed Vapourizer
JH PMT 6108	Feed Vapourizer #1
JH PMT 6109	Solvent Cooler
JH PMT 6110	Solvent Cooler
JH PMT 6111	Main Washer Condenser
JH PMT 6112	After Washer Condenser
JH PMT 6113	Solvent Heater Exchanger
JH PMT 6114	Solvent Heat Exchanger
JH PMT 6115	Solvent Heat Exchanger
JH PMT 6116	Degasser Reboiler
JH PMT 6117	Water & Solvent Cooler
JH PMT 6119	Water & Solvent Cooler
JH PMT 6123	C4 Acetylenes
JH PMT 6128	Propylene Column Reboiler
JH PMT 6152	Butadiene Column Reboiler
JH PMT 6153	Butadiene Product Chiller

(1)	(2)
<i>Registration No.</i>	<i>Description of Unfired Pressure Vessels</i>
PMT 117918	Pyrolysis Gasoline Hydrogenation Reactor
JH PMT 10294	Separator
JH PMT 10364	Storage tank A
JH PMT 10365	Storage tank B
JH PMT 10366	Butadiene Cooler
JH PMT 6154	Propylene Column Bottom Filter
JH PMT 6155	Propylene Column Bottom Filter
JH PMT 6156	Product Inhibitor Filter
JH PMT 6157	Main Washer
JH PMT 6158	Rectifier/After Washer Column
JH PMT 6159	Degasser
JH PMT 6160	Acetylene Washer
JH PMT 6161	Secondary Acetylene Washer
JH PMT 6162	Cooling Column
JH PMT 6165	Water Washer Column
JH PMT 6166	Water Washer Support
JH PMT 6167	Feed Vapourization Drum
JH PMT 6168	Main Washer Accumulator
JH PMT 6169	After Washer Accumulator
JH PMT 6176	Solvent Inhibitor Drum
JH PMT 6178	Waste Washer Stripper Accumulator
JH PMT 6179	Condensate Flash Drum
JH PMT 6180	Tempered Water Drum
JH PMT 6183	Deisobuteinizer
JH PMT 6184	Deisobuteinizer Condenser
JH PMT 6185	Deisobutenizer Condenser
JH PMT 6186	Deisobutenizer Vent Condenser
JH PMT 6187	DP Reactor Feed/Effluent Exchanger
JH PMT 6188	DP Reactor Effluent Cooler
JH PMT 6190	Regeneration Gas Electric Heater

(1)	(2)
<i>Registration No.</i>	<i>Description of Unfired Pressure Vessels</i>
PMT 117918	Pyrolysis Gasoline Hydrogenation Reactor
JH PMT 10294	Separator
JH PMT 10364	Storage tank A
JH PMT 10365	Storage tank B
JH PMT 10366	Butadiene Cooler
JH PMT 6191	C4 Feed Treater Effluent Filter
JH PMT 6192	C4 Feed Treater Effluent Filter
JH PMT 6193	Ethylene Feed Treater/Effluent Filter
JH PMT 6194	Ethylene Feed Treater/Effluent Filter
JH PMT 6195	Ethylene Feed Treater Heater
JH PMT 6196	Deethylenizer Feed Chiller
JH PMT 6197	Deethylenizer Feed Chiller
JH PMT 6198	Depropylenizer Condenser
JH PMT 6199	Dry Flare Heater
JH PMT 6200	SHU Reactor
JH PMT 6202	DP Reactor
JH PMT 6204	DP Reactor
JH PMT 6205	Deisobuteinizer
JH PMT 6206	Deethylenizer
JH PMT 6207	Depropylenizer
JH PMT 6208	SHU Reactor Separator Drum
JH PMT 6209	Deisobuteinizer Reflux Drum
JH PMT 6210	Seal Oil Separator Pot
JH PMT 6211	Seal Oil Drain Pot
JH PMT 6212	Condenser
JH PMT 6213	Product Inhibitor Filter
JH PMT 6214	Condenser
JH PMT 6215	Air Receiver
JH PMT 6216	Air Receiver
JH PMT 6217	Air Receiver

(1)	(2)
<i>Registration No.</i>	<i>Description of Unfired Pressure Vessels</i>
PMT 117918	Pyrolysis Gasoline Hydrogenation Reactor
JH PMT 10294	Separator
JH PMT 10364	Storage tank A
JH PMT 10365	Storage tank B
JH PMT 10366	Butadiene Cooler
JH PMT 6218	Air Receiver
JH PMT 6219	Air Receiver
JH PMT 6220	Separator Drum
JH PMT 6221	C4 Feed Treater
JH PMT 6222	C4 Feed Treater
JH PMT 6223	Ethylene Feed Treaters
JH PMT 6224	Ethylene Feed Treaters
JH PMT 6225	Fresh/Recycle C4 Surge Drum
JH PMT 6226	Regenerator Drain Drum
JH PMT 6227	Deethylenizer Reflux Drum
JH PMT 6228	Deethylenizer Reflux Drum
JH PMT 6229	LP Steam Condensate Drum
JH PMT 6230	Oil Separator
JH PMT 6231	Oil Separator
JH PMT 6232	Receiver High Pressure
JH PMT 6233	Subcooler
JH PMT 6234	Suction Knock Out Drum
JH PMT 6235	Suction Knock Out Drum
JH PMT 6236	Oil Cooler
JH PMT 6237	Oil Cooler
JH PMT 6238	Condenser
JH PMT 6239	Subcooler
JH PMT 6240	Condenser
JH PMT 6241	Oil Tank
JH PMT 6242	Air Receiver

(1)	(2)
<i>Registration No.</i>	<i>Description of Unfired Pressure Vessels</i>
PMT 117918	Pyrolysis Gasoline Hydrogenation Reactor
JH PMT 10294	Separator
JH PMT 10364	Storage tank A
JH PMT 10365	Storage tank B
JH PMT 10366	Butadiene Cooler
JH PMT 6243	Air Receiver
JH PMT 6244	Air Receiver
JH PMT 6245	Air Receiver
JH PMT 6246	Air Receiver
JH PMT 6247	Filter
JH PMT 6248	Air Reveiver
JH PMT 6249	Air Dryer
JH PMT 6250	Air Dryer
JH PMT 6251	Water Separator
JH PMT 6252	Water Separator

Made 27 September 2011

[KSM/PUU/T/01/02/03 ]ld.14; PN(PU2)235/XXXI]

DATUK DR. SUBRAMANIAM A/L K.V. SATHASIVAM  
*Minister of Human Resources*