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BASF TOTAL Petrochemicals, LLC

Port Arthur, Texas, USA

BASF TOTAL Petrochemicals LLC is a joint venture between BASF Corporation and Total Petrochemicals & Refining USA, Inc. The Port Arthur facility operates one of the largest steam crackers in the world, turning naphtha and light hydrocarbons into ethylene, propylene and other chemical raw materials.

The products from the cracker are in turn used in the manufacturing of hundreds of consumer products. The facility also includes the world's largest butadiene extraction unit and an indirect alkylation unit. Butadiene is used in the production of rubber and plastics. Alkylate is used as a fuel additive for high octane gasoline blending.

(01) Butadiene condenser structure – BASF TOTAL Petrochemicals, LLC

10/16/2013; 08:19; A1/A2: Atmo; FullHD



The butadiene plant, also a joint venture between BASF and Total, started operations shortly after the steam cracker. It is the world's largest single train butadiene extraction unit with a world scale downstream indirect alkylation unit. It was the first commercial metathesis unit to convert ethylene to propylene.

The butadiene extraction unit's capacity is approximately 410,000 tonnes per year and the indirect alkylation unit's capacity is approximately 300,000 tonnes per year.



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(02) Storm water tank – BASF TOTAL Petrochemicals, LLC

10/16/2013; 05:04; A1/A2: Atmo; FullHD



BASF uses water for cooling and cleaning as well as to produce its products. We employ different methods for using water sustainably at our sites around the world owing to the regional differences in water availability and quality.

In Port Arthur, BASF is required to collect some of the rain water that falls on the site. Two large tanks are used to store of this rain water from the site before it is send to the refinery for processing in their waste water treatment facility. Overall, the two tanks have a capacity of about 5,000,000 liters. All other rain water is discharged to the local waterways.

(03) Entrance gate – BASF TOTAL Petrochemicals, LLC

10/16/2013; 07:30; A1/A2: Atmo; FullHD



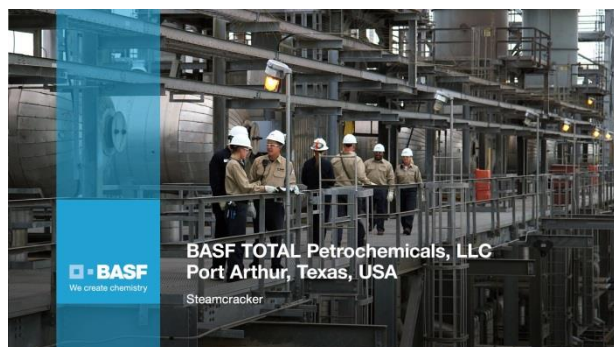
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Fossil fuels are the basis for a number of products that have become indispensable in our modern society, such as plastics or coatings. We transform these raw materials so they can be used for a wide range of products. With our expertise in operating highly-complex steam crackers, we are a global leader. BASF operates five steam crackers worldwide, providing raw materials to the plants at the site. The Verbund structure at large sites intelligently links production facilities, energy flows, logistics and infrastructure – providing clear advantages for BASF customers and partners when it comes to availability and flexibility.

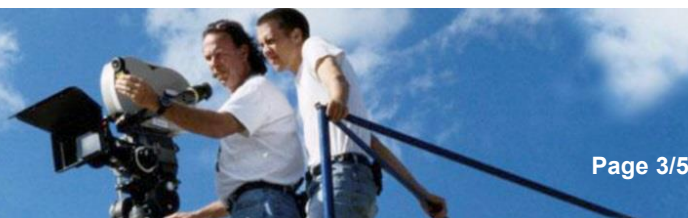
(04) Steamcracker – BASF TOTAL Petrochemicals, LLC

10/16/2013; 10:12; A1/A2: Atmo; FullHD



Cracker products are the building blocks of the chemical industry and the starting materials for numerous processing industries. These basic products for the processing industry are used in end products that help to meet demand for clothing, food, housing and mobility as well as medication and personal care items.

In Port Arthur BASF Total Petrochemicals LLC (BTP) produces basic petrochemicals. We jointly operate one of the world's largest flexible feed steam crackers as well as the world's largest butadiene extraction facility.

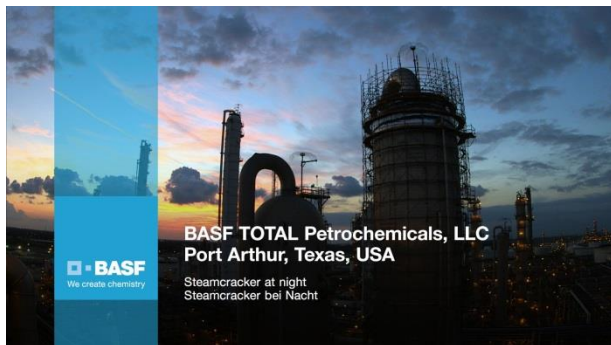


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(05) Steamcracker at night – BASF TOTAL Petrochemicals, LLC

10/16/2013; 03:45; A1/A2: Atmo; FullHD



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In Port Arthur BASF Total Petrochemicals LLC (BTP) produces basic petrochemicals. We jointly operate one of the world's largest flexible feed steam crackers as well as the world's largest butadiene extraction facility.

(06) Charge gas compressor – BASF TOTAL Petrochemicals, LLC

10/16/2013; 03:32; A1/A2: Atmo; FullHD





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In ethylene production, the feedstock, usually naphtha or ethane, initially is cracked to produce the desired ethylene, and other useful byproducts. The cracked gas is rapid quenched to stop the degradation of the olefins and coke formation.

These steps take place in what is sometimes called the "hot" part of the ethylene plant. The cooled gas then proceeds to the "cold" part of the plant, where the actual product separation takes place.

(07) Vicinity of the site – BASF TOTAL Petrochemicals, LLC

10/16/2013; 08:41; A1/A2: Atmo; FullHD



In Port Arthur BASF Total Petrochemicals LLC (BTP) produces basic petrochemicals. We jointly operate one of the world's largest flexible feed steam crackers as well as the world's largest butadiene extraction facility.

The feed flex project, completed in the 2nd quarter of 2013, enables the steam cracker to operate more flexible. With the completion of this project, BASF made the use of raw materials more flexible in order to take better advantage of the lower gas prices in the United States. The 10th furnace project, currently in progress, will provide sustained rates of production at capacity and improve furnace reliability at the site.

