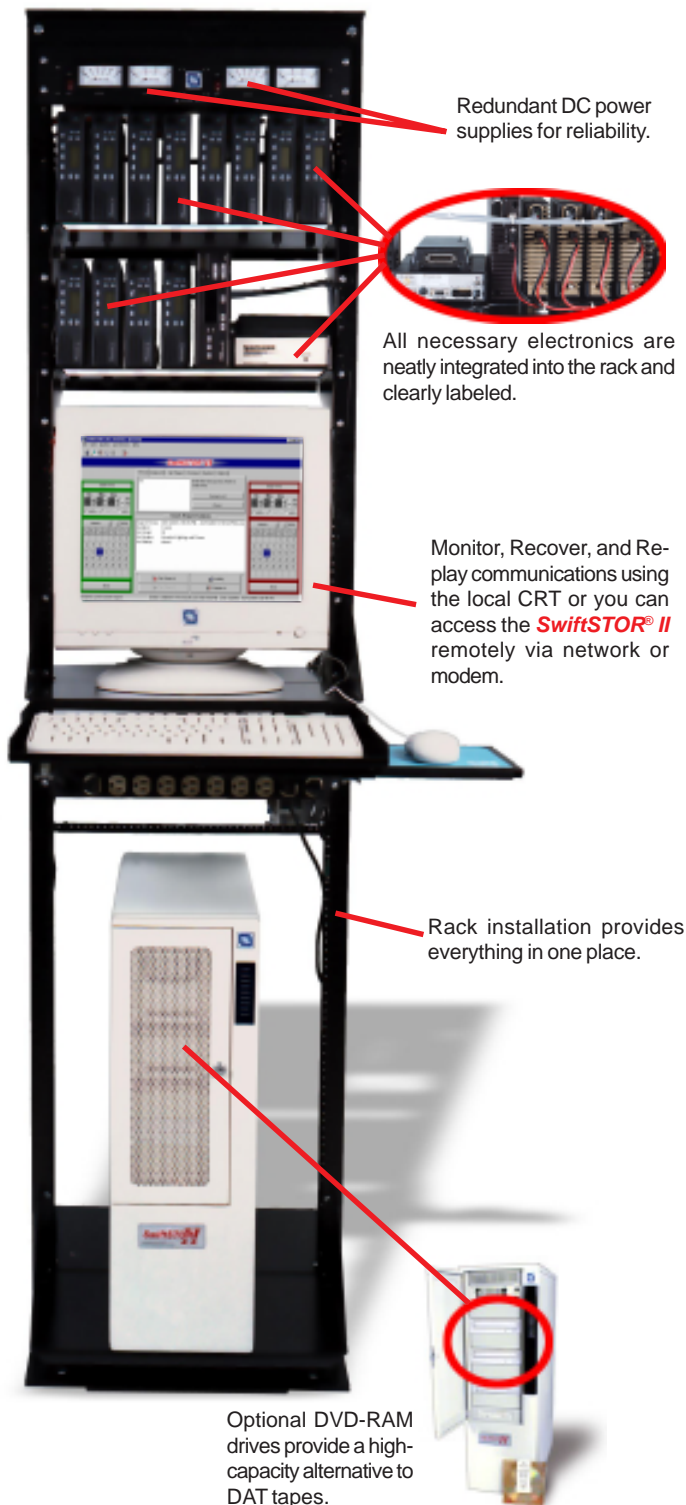


## SwiftSolutions™

Lyondell-Citgo Refining Company, Ltd.  
Houston, Texas



The sprawling Houston plant of the Lyondell-Citgo Refining Company is one of over 100 refining and petrochemical plants located on the Houston Ship Channel and Galveston Bay in southeast Texas. The plant, which is one of the largest in the United States, has a refining capacity of 265,000 barrels of crude oil per day. The plant employs over 1,300 people and covers 710 acres (just over 1 square mile) with tanks, piping, valves, reactors, and other massive petroleum refining equipment. Like most of the other plants along the Ship Channel and Bay area, Lyondell uses two-way radio to manage and coordinate its plant operations.

Lyondell uses a 12 channel Motorola Smartnet<sup>®</sup> 2 Trunked Radio System to provide essential communications. The Lyondell system uses 1,250 intrinsically-safe handheld radios and 250 vehicular mounted and based mobiles. The trunked system is organized into 43 departmental talk groups. Lyondell policy requires that traffic on the radio system be recorded. To provide efficient, cost effective recording with quick and easy search and recovery of all two-way radio transmissions, Lyondell radio system manager, Steve King, chose the **SwiftSTOR<sup>®</sup> II** Communications Recovery System to solve the problem.

The **SwiftSTOR<sup>®</sup> II** installation is shown at the left. At the top are two redundant 13.8 VDC power supplies. Below the power supplies are 8 Motorola GTX radios and on the next shelf are 4 Motorola GTX radios, a Motorola RF Modem, and a Spectacom GPS clock. The GTX radios are programmed as fixed frequency receivers, one for each RF channel. The CRT and Keyboard are located below the radios and the **SwiftSTOR<sup>®</sup> II** is located on the lower shelf. Steve decided to archive his recordings using the new 4.7 GB DVD-RAM drives and to get the trunked radio signals off-the-air. By getting the signals off the air, the **SwiftSTOR<sup>®</sup> II** does "double duty". In addition to capturing the trunked radio system and several telephone lines, it also provides a very convenient way to live monitor and is a valuable tool for troubleshooting the trunked radio system.

For more information about this and other **SwiftSTOR<sup>®</sup> II** installations, please contact:



P.O. Box 2288  
Stafford, Texas 77497-2288  
Voice: 832-947-1760  
Toll Free (US): 866-607-2112  
Fax: 832-947-1759  
Web: [www.swiftcomp.com](http://www.swiftcomp.com)  
Email: [swift@swiftcomp.com](mailto:swift@swiftcomp.com)