

# Intrinsically Safe Radio Meets HCIS Requirements

## Hytera DMR Solution Provides Efficient and Reliable Communication Services for Jubail Industry City, KSA

### User

Arabian Amines Company (Aminat), KSA

### Market segment

Oil & Gas

### Project time

2016

### Products

PD79X EX Portable Radio  
MD78XG Mobile Radio  
RD98XG Repeater  
Hytera Dispatch System

### Solution Feature

Intrinsically safe terminals for hazardous environment;  
Compliant with Saudi Arabian local communication requirement of HCIS.



### Background >>

Arabian Amines Company (Aminat), a 50/50 joint venture company by ZamilGroup (one of Saudi's largest conglomerate) and Huntsman (a well-known global manufacturer and marketer of commodity and differentiated chemicals), operates a world-scale ethyleneamines facility in Al-Jubail Industrial City, the heart of the petrochemical industry in Saudi Arabia. The plant capacity for the ethyleneamines is 27,215 MTPA. The plant was commissioned on 17th May, 2010 and quality ethyleneamines were obtained on 22nd May, 2010.

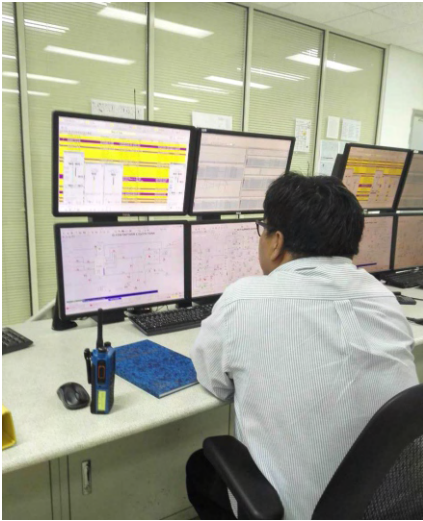
### Challenge >>

The customer was using analog system under simplex mode with six frequencies after its establishment. The customer suffered from poor voice quality, short battery life and poor after-sales service, etc. About one year after Aminat's establishment, HCIS (part of Ministry of Interior, Kingdom of Saudi Arabia) issued new standards and regulations for the communication system of all the industrial project in Saudi Arabia, part of which are:

1. All handheld must be intrinsically safe;
2. All the voices calls must be recorded and kept for at least 12 months;
3. A UPS capable of powering security communications equipment for at least 12 hours.

Thus Aminat found it necessary and urgent to upgrade the outdated analog system.





## Solution

Hytera, together with its partner Zamiliis, provided a one-stop solution for Aminat: the RD98XS super repeater, the Hytera Dispatch System and Intrinsically Safe DMR portable radio PD79X Ex. Four of the existing six frequencies were chosen for the two RD98XS, and four working groups (security, services, operation and maintenance) with one emergency group were programmed to the terminals according to different users' authority. A dedicated UPS was also provided. Besides the voice recording, Hytera Dispatch System provided with more functions and features than the HCIS requirement. The users wanted to use the new system so urgently, that the DMR terminals worked under direct mode during the installation of the repeater antenna system and later repeater mode. When the infrastructure installation was finished, a smooth migration was achieved.

## Benefits

The digital technology offers crystal clear voice even in very noisy environment in the Aminat plant, and the Intrinsically Safe PD79X Ex with Emergency Button and Man-down feature protects the worker in case of emergencies. All calls are recorded for truth recovery.



### Hytera Communications Corporation Limited

Stock Code: 002583.SZ

Address: Hytera Tower, Shenzhen Hi-Tech Industrial Park North,  
Beihuan RD.9108#, Nanshan District, Shenzhen, P.R.C.

Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057

Http: //www.hytera.com marketing@hytera.com

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