

## Services Performed

IRC conducted a building siting assessment for the Markham gas conditioning plant based on the requirements of API RP 752 and API RP 753. Based on these industry recommended practices, IRC developed a standard approach that could be applied to numerous Williams' sites.

## Objectives

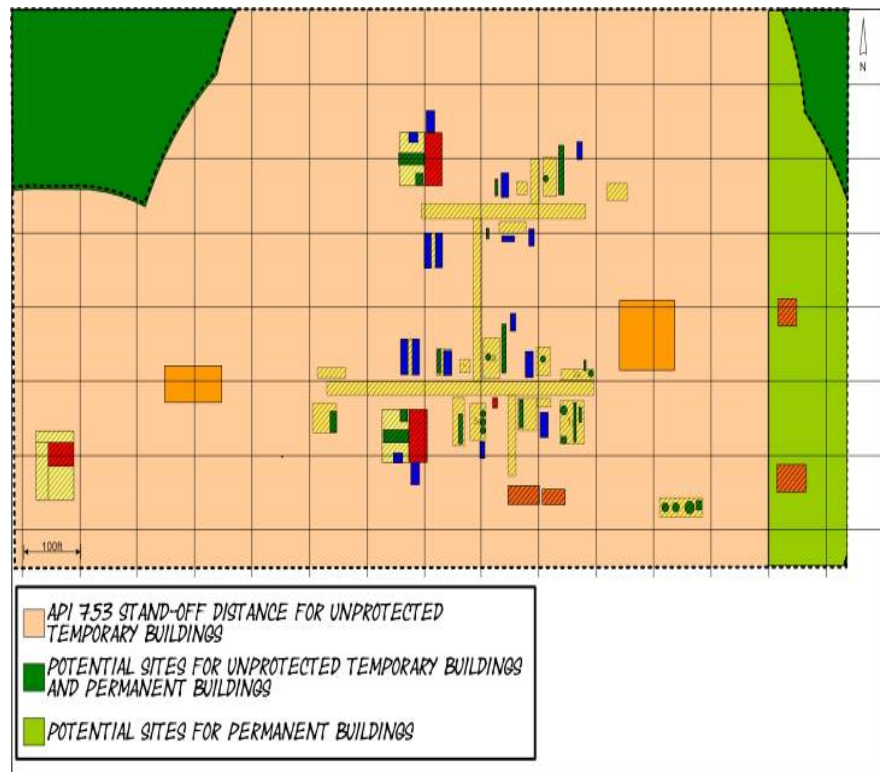
- Determine acceptable areas for placement of temporary buildings (e.g., trailers)
- Outline design requirements and acceptable location for a new control room/office building
- Understand possible consequences of accident events (e.g., flammable gas release leading to thermal radiation or blast overpressure) at existing occupied buildings

## Project Description

Williams owns numerous U.S. gas plant facilities including the Markham, Texas plant. Determination of suitable locations for temporary and permanent buildings was needed in order to comply with API requirements.

The Markham analysis determined areas of the plant where temporary and permanent buildings could be safely sited. It also provided details of hazardous event frequency and distance effects in order to provide a basis for siting of potential future buildings.

The siting analysis was based on industry-accepted requirements and guidelines, thus providing a robust and defensible basis for building locations. The standard approach developed for the Markham plant can be used as a template for building siting assessments at other Williams' sites.



## Key Benefits to Client

- The assessment provided Williams with risk-based results upon which to make informed building siting decisions and defined areas for permanent and temporary buildings where they would not be damaged by explosion
- The standard approach developed during the Markham assessment can be used as a template for other Williams' sites; saving time and money when performing future analyses