On the morning of July 8, 2010, TX-TF1 was activated by TDEM to deploy to South Texas due to flooding associated with Hurricane Alex. The NWS predicted that the Rio Grande River would flood over the next 4 days as additional rain was predicted in South Texas and along the Texas/Mexico border with the arrival of a new tropical depression.

In anticipation of the flooding potential, TX-TF1 deployed 2 Liaison Officers to South Texas to assist local elected officials and emergency managers. The task force also mobilized 6 Water Rescue Squads to the Rio Grande Valley along with additional support personnel. Additionally, TX-TF1 mobilized and staged 2 HSARTS and a HSART Manager in San Antonio. All resources worked with local officials throughout the event to provide assistance to jurisdictions when requested.

On the afternoon of July 12, after the flooding began to subside, TDEM demobilized all TX-TF1 resources.