On September 11, 2009, TX-TF1 was activated by the Texas Division of Emergency Management (TDEM) to prepare for severe weather and heavy rains across central Texas. As a result, the task force mobilized and pre-staged 8 HSARTS in Austin and San Antonio. TX-TF1 also mobilized a HSART Manager, and staged them in Austin, to provide command and control. The HSARTS and Manager were on station and ready for deployment from Austin and San Antonio starting the morning of September 12.

The NWS predicted severe weather and heavy rain activity along the Interstate 35 corridor from San Antonio to Waco, moving eastward through the afternoon of September 12 and continuing into the evening of September 13.

On the morning of September 14, after the threat of flooding across Texas had subsided, TDEM demobilized all TX-TF1 personnel.