

	<b>TRAVIS COUNTY ESD #5</b> <b>MANCHACA FIRE RESCUE</b> <b>Department Directive</b>	<b>D2021-001</b>
		Effective: 1/13/2021
		Rescinds: na
<b>Preventing Self-Deployment of Dump Chutes on ENG511</b>		From: C Poole

On two different occasions we have experienced the unintended self-deployment of Engine 511's dump chutes while the apparatus was undergoing its equipment check. Additionally, there was one occasion reported by Sutphen of this event occurring while the apparatus was being built. While the initial event was dismissed as a fluke or user error, recent occurrences in station has proven that there is a functional issue to be addressed.

Today, we conducted extensive troubleshooting to try to isolate the specific sequence of events that causes the self-deployment of the dump chutes. We believe that we have determined that sequence of events and a way to prevent it from occurring until the issue can be permanently fixed.

The issue appears to occur when:

1. The Left, Right, or Rear scene light is on
2. The apparatus motor is shut down by toggling the 3-position Ignition switch from the bottom ON position to the middle ACCESSORY position.
3. The Ignition switch is then moved back to the ON position with the scene light still on

During the troubleshooting, this sequence of events did not produce the self-deployment of the dump chutes 100% of the time but we were able to cause the self-deployment of the dump chutes approximately 20 times (>50% of the attempts).

To avoid causing the self-deployment of the dump chutes:

- Do not start the truck with the scene lights on
- Cycling the Ignition switch to the OFF position before restarting will ensure the scene lights are off because the scene and emergency lights reset to OFF when the Ignition switch is in the OFF position.

We are forwarding our findings to Sutphen so that they can work on designing a solution. We will update you once that fix is applied to the apparatus.

