

**PACIFIC GAS AND ELECTRIC COMPANY  
Wildfire Mitigation Plans Discovery 2023  
Data Response**

PG&E Data Request No.:	CalAdvocates_010-Q005		
PG&E File Name:	WMP-Discovery2023_DR_CalAdvocates_010-Q005		
Request Date:	April 4, 2023	Requester DR No.:	CalAdvocates-PGE-2023WMP-10
Date Sent:	April 10, 2023	Requesting Party:	Public Advocates Office
DRU Index #:		Requester:	Holly Wehrman

**Grid operations**

**QUESTION 005**

P. 357 of PG&E's WMP states, "If deployed, DTS-FAST could have a significant impact on wildfire risk where deployed."

- a) Please quantify the phrase "a significant impact on wildfire risk" in the above quote.
- b) Please provide any workpapers or studies to support your answer to part (a).

**ANSWER 005**

- a) Please quantify the phrase "a significant impact on wildfire risk" in the above quote.

We do not have enough data to provide a precise quantification of the impact at this time. The deployed sensor system is designed to actively monitor the environment for potential wildfire risks. For instance, the sensors are capable of detecting vegetation that has fallen onto power lines or are leaning against it. When such an event is detected, the sensor will trigger an alarm at the location, allowing for operational decisions to be made such as de-energizing the line before a potential fire hazard arises. The key differentiator of this system is that it is deployed outside of the substation, directly in high fire threat areas, and could detect risks before any electrical fault has occurred.

- b) "Please provide any workpapers or studies to support your answer to part (a)."

We do not have any workpapers or studies to provide. The sensor's detection speed is almost instantaneous or within one second and the actual delivery of the alarm message to operations is dependent on the fastest telecommunications service at the sensor site. In our lab, we detected falling vegetation against energized conductors within one second. Our field testing with good telecommunications service ranged from 4 to 8 seconds.