

**Stimulated Emergency Test (SET) Communications Exercise**  
**Oahu Communications Plan**  
**Saturday, October 21, 2017**

**Introduction:**

The Simulated Emergency Test (SET) is an annual communications exercise sponsored by the American Radio Relay League (ARRL), the National Association for Amateur Radio. The purpose of the exercise is to assess the capability of amateur radio operators to provide communications in the immediate aftermath of a natural or man-made disaster. Radio amateurs throughout the State of Hawaii are encourage to participate in this exercise.

The scenario for SET 2017 in Hawaii will be a Great Aleutian Tsunami resulting from a magnitude 9.2 earthquake in the Aleutian. The tsunami will be a series of waves more than 30 feet tall which will have a disastrous impact on the Hawaii islands. It will affect all counties in the State of Hawaii.

SET 2017 will be held on Saturday, October 21, 2017, from 0800 to 1300 hours local time or Hawaii Standard Time.

**Goals and Objectives for Oahu:**

The results of this exercise may be used to shape amateur radio communications policy in the future. It is important to assess our ability to provide communications to insure that amateur radio operators are prepared to respond effectively when a disaster disrupts or overloads normal means of communications. The overall goals and objectives are:

- To assess the ability of radio amateurs on Oahu to respond quickly to a catastrophic event;
- To test our proficiency at sending clear, concise, comprehensive messages from the field to the hub stations, from the hub stations to Oahu EOC (Department of Emergency Management Emergency Operations Center) and in turn from the Oahu EOC to the State EOC;

- To use simplex VHF frequencies from the field to the three Oahu ARES District hub stations (North, South and Windward);
- To forward the messages from the three Oahu ARES Districts hub stations to the Oahu EOC via the linked DEM RACES and EARC linked repeaters and also HF);
- To identify problems with equipment and operational methods;
- To provide a nurturing environment to learn best practices while having fun.

### **Concept of Operations:**

For this exercise, the tsunami arrived at 8:00 a.m. (this exercise artificiality is to help move the exercise forward so we can concentrate on sending and receiving messages) to all counties and has caused heavy damages in the inundation zones to all counties. All land-line and cell telephone service as well as electrical power and internet service to the entire island of Oahu are down.

Whether amateur radio operators are DEM RACES, State RACES, ARES, or unaffiliated, we encourage all amateur radio to participate in this exercise.

The radio operators out in the field (simulated or actually out in the field) or in their homes throughout Oahu will become the additional eyes and ears for the City and County of Honolulu, Department of Emergency Management (DEM). They will use simplex VHF frequencies assigned in their ARES Districts (see attached ICS-205).

All messages sent whether voice or digital will include the following prior and after the body of each message: "This is an exercise message."

The three ARES District Emergency Coordinators for North Oahu, South Oahu, and Windward Oahu, will setup a hub station in their districts to receive simplex VHF voice and Fldigi ICS-213 messages. The three ARES District hub stations will in turn send their messages via Fldigi and voice either via the DEM VHF and EARC VHF linked repeaters and/or HF 7.080 USB to "Oahu EOC, Attention: Oahu EOC Operations Coordinator". These messages will be a situation report(s) (SITREPs),

summary of key damage reports received from the field and request for assistance (RFA) from the local communities, i.e., Kailua, Waimanalo, Kaaawa, Haleiwa, Ewa, Hawaii Kai, etc.

The Oahu EOC will send ICS-213 messages to the “State EOC, State EOC Operations”:

- 1) At least one SITREP, preferably several SITREPs,
- 2) A summary of key damages reports during this SET exercise, and
- 3) Any RFAs which the City and County of Honolulu cannot fulfill.

The State RACES repeater at Diamond Head, 147.060 PL 103.5 will be linked to the 444.350 PL 103.5 repeater and will be used for both voice and Fldigi ICS-213 messages. The 444.325 PL 103.5 Waimanalo repeater may or may not be linked. HF 7.088 LSB will be used for both voice and Fldigi ICS-213 messages. The State tactical call sign will be “State EOC” (KH6HPZ).

All ARES hub stations, Oahu EOC and State EOC Net Control Stations will log in all messages received and transmitted will send their logs to the ARES Pacific Section Emergency Coordinator (SEC) within one week of the conclusion of the SET.

Hubs stations may assign tactical call signs to the stations out in the field. However, all stations are required to still give their assigned FCC amateur radio call sign at the end of their transmissions.