**SALSA On Ice Report:** 25 November 2017

**Weather:** A fine day to celebrate Thanksgiving in McMurdo. Sunshine, light and variable winds and temperature of 25F/-4C at 19:00.

**SALSA Drillers on Ice:** Dar Gibson, Graham Roberts, Justin Burnett, Bob Zook.

**Activities:**
- Day off as the station celebrates Thanksgiving today.
- Diagnostic testing and prep work with SCINI continues and support provided as necessary.

Vince’s Cross with Scott’s Hut and McMurdo Station in the background.

**Report by Dar Gibson**
SCINI Project Update

Dates: 24 November 2017 and 25 November 2017

Activities:

• The last two days have been busy. McMurdo celebrates Thanksgiving on Saturday the 25\textsuperscript{th}. This year the SCINI team is thankful for spare parts and backup plans.

• Root cause of the power system failure has been determined. A defect in the potting compound surrounding the high voltage transformer allowed for seawater intrusion over a long timescale at high pressure. It is unclear if this defect was a result of manufacturing, or from transportation and vibration. Further analysis to be conducted for future corrective action.

• Luckily, the vehicle has a built in low power mode. This gives us an opportunity to test a medium voltage solution which has been deliberately planned into the vehicle architecture, in case of a such a power failure.

• The team has been busy reconfiguring the vehicle to fly in this new mode for testing on the sea ice early next week

Report by Justin Burnett
GPS Station Update

Location: McMurdo Station, Antarctica

Personnel on Ice: Matthew Siegfried (Stanford University), Susheel Adusumilli (Scripps Institution of Oceanography)

Updates:
- Happy McMurdo Thanksgiving! Susheel and Matt celebrated by running the McMurdo 5K Turkey Trot in the morning and eating an extravagant Thanksgiving dinner prepared by the Galley with the Operation IceBridge team.

Figure 1. Finishing straight of the McMurdo Turkey Trot