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PROJECT REPORT

PORTABLE LED AIRFIELD LIGHTING AT NORTHERN CANADIAN INTERNATIONAL AIRPORT

LOCATION Canada

DATE 2018

CLIENT Northern International Airport

EQUIPMENT LED Battery Runway Lighting
LED PAPIs, Portable Battery Systems
Solar Series RMS, Reflective Markers

APPLICATION Portable LED Airfield Lighting System

SYNOPSIS

Aviation Renewables has been awarded a contract to supply portable airfield lighting systems solutions for an international airport in Northern Canada. After careful consultation with the airport management team, a portable LED airfield lighting system was designed, shipped and installed within 7 weeks for the runway-resurfacing project on the airport's primary runway. The ICAO compliant portable lighting allows the airport to easily displace the threshold multiple times through different phases of the project.

CHALLENGE

The airport tasked Aviation Renewables to deliver LED PAPI systems powered by portable battery systems; threshold LED lighting systems powered by a Solar Series RMS portable charging station; and solar powered LED taxiway lighting. This LED lighting can be controlled via an RF remote control from either the ATC tower or ground personnel; or controlled by photocell for automatic dusk-to-dawn operation.

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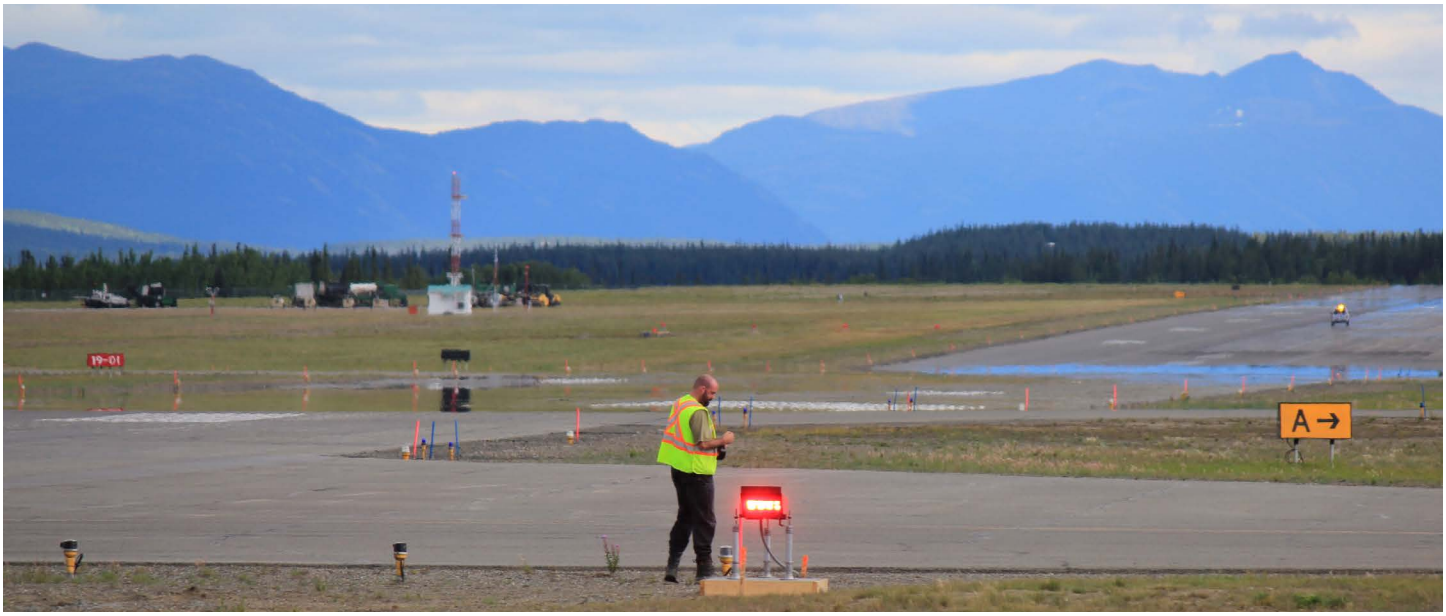
SOLUTION

The airport required a portable LED airfield lighting system during the project to accommodate the various threshold displacements during different stages of the project. The portable threshold lighting and portable 4-box LED PAPI systems are easily picked up and re-located to indicate the new threshold location when required. The solar powered taxiway lighting is used in conjunction with portable battery lighting on the secondary runway. This allows the airport to maintain night operations, even when the primary runway needs to be closed during resurfacing. Incorporating a mix of solar and battery portable lighting will allow the airport maximum flexibility during future operations, especially during the winter when sunlight hours are at a minimum.

Aviation Renewables provided onsite assistance during the execution of the runway-resurfacing project to ensure all portable LED airfield lighting were functioning properly along with training and maintenance instruction provided to airport personnel. With a turn-around time of less than 7 weeks to deliver and commission a portable LED runway lighting system, achieving met the customer's expectations for safety, compliance, cost savings and long term capability for future portable LED airfield lighting requirements.



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