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### ABSTRACT SUBMISSION — SOUMISSION DE RESUME

Topic No.: / Sujet n° : ----- or / ou  
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#### ABSTRACT / RESUME:

##### AUTOMATION OF SALVORA ISLAND LIGHTHOUSE WITH LED TECHNOLOGY

MSM has recently implemented the automation of Salvora Island Lighthouse, located on the northwest coast of Spain, by using pioneering aids-to-navigation systems.

On the one hand, it was necessary to retain the historic optical system consisting of a 1<sup>st</sup>-order glass lens, besides its luminous range and character; on the other hand, to automate and update the station with state-of-the-art devices. Being one of the few remaining lighthouses in the world with Otter screen system, MSM designed a system that uses as main light a 150W virtual-filament lamp plus a directional system associated with the movement of the Otter screens, both based on LED technology, which provide a red beam in the sector where previously the Otter screens occulted the flash.

Additionally, a standby rotating sectorised beacon with dual motor and LED projectors has been installed, which faithfully reproduces the characteristic of the lighthouse. As an exceptional concept, this beacon has replaced the dome cap. Furthermore, its dual rotating motor has been located inside the lighthouse meanwhile a special transmission system enables its rotation, thus making easier subsequent maintenance works. The job is completed with a modern Remote Monitoring System.

This renewal means a further step applying the latest technology in conventional lighthouses.