

Project Objective

Date	08 November 2022
Team ID	PNT2022TMID54463
Project Name	Industry-Specific Intelligent Fire Management System

OBJECTIVE:

- protection of life.
- protection of property.
- continuity of operation.
- Prevent the occurrence of fire and explosion.
- Reduce the risk to life caused by fire.
- Reduce the risk of damage caused by fire to the ship, its cargo and the environment.
- Contain, control and suppress fire and explosion in the compartment of origin.
- Provide adequate and readily accessible means of escape for passengers and crew.
- Protect important scientific, cultural, historic, prehistoric, and scenic resources, private lands, and visitor, administrative, and other facilities/structures by reducing fuel load levels in adjacent areas. This work will be integrated into an ecological approach to habitat management with the consideration of spatial aspects (e.g., connectivity).
- Maintain and restore historic vegetation structure, composition, and biodiversity through the use of prescribed fire and a Fire Use Program. This involves maintaining and restoring sedge-dominated conditions and reducing encroaching woody vegetation by Fire Use or prescribed fire. In forested areas, fire will also be used (in conjunction with other forest management techniques) to restore structure and composition. In sandy outwash, fire will be used as a disturbance to stimulate vegetation community regeneration and promote blueberry production.
- Use prescribed fire to thwart invasive exotic species such as glossy buckthorn (*Rhamnus frangula*).
- Educate the public regarding the role of fire as a natural disturbance mechanism that regulates vegetation composition and structure. Devise education programs at the Visitor Center specific to fire.