

عنوان مقاله:

Role and use of vessel Traffic system (VTS) in provision of safety for vessels at the entrance of ports and in the canals

محل انتشار:

نهمین همایش بین المللی مهندسی سواحل، بنادر و سازه های دریایی (سال: 1391)

تعداد صفحات اصل مقاله: 2

نویسندگان:

Abdolkarim Rrazazan - MSc, Ports and Marine Organization

Hoshang zafranlo - MSc, Co.kharazmertebat

Abass mohammadi - MSc, Co.kharazmertebat

Ehsan dehgan - engineere, Ports and Marine Organization

خلاصه مقاله:

A Vessel traffic service (VTS) is a marine traffic monitoring system established by harbor or port authorities similar to air traffic control for aircraft. Typical VTS system use radar. Closed circuit television (CCTV), VHF radiotelephony and AIS (Automatic Identification System) to keep track of vessels monument and provide navigational safety in limited geographical area. VTS is designed to improve the safety and (SOLAS) efficiency of navigation safely or life at sea (Solar) and protection of marine environment. VTS is governed by SOLAS, chapter V regulation 12 together with guideline for vessel traffic services adapted by International Marine Organization (IMO) on 27 November 1997. The VTS traffic image is compiled and collected by means of advanced sensors, such as radar AIS, Direction finders CCTV and VHF or other cooperative system and services a modern VTS integrates all of the information in a single operator working environment for ease of use, and in order to allow for effective traffic organizations and communication. Another important function of VTS is the oversight of busy traffic separation zone, where two streams of the traffic moving in opposite directions are monitored. Such traffic may be complicated by ferries crossing at right angles, or fishing or recreational crafts role becomes that of a "traffic police" investigating be spotted. VTS should always have a complete traffic image which means that all factors as well as information about all participating vessels and their intentions should be readily available. by means of traffic image, situation that are developing can be evaluated and respond upon. The data evaluation depend on great extend on the quality of data that is collected and the ability of the operator to combine this with an actual or developing situation. the data dissemination process exists of conveying the conclusion of the operator. A VTS is generally appropriate in areas that may include any, or combination of the following: . High traffic density. Traffic carrying hazardous cargoes. Conflicting and complex navigation pattern. Difficult hydrographical, hydrographical and meteorological elements. Environmental consideration Interference by vessel traffic with other water borne activities. Number of casualties in an area during specified period. Existing or planned vessel services on adjacent water ways and the need for operation between neighboring State, if appropriate. Narrow channels, port configuration bridges pocks, bends and similar areas where progress

کلمات کلیدی:

VTS, CCTV, AIS, Direction Finder, Monitoring

