1. Record Nr. UNINA9910451825103321 Shipboard pollution control [[electronic resource]]: U.S. Navy Titolo Compliance with MARPOL Annex V / / Committee on Shipboard **Pollution Control** Washington, D. C., : National Academy Press, 1996 Pubbl/distr/stampa Descrizione fisica 1 online resource (68 p.) Disciplina 363,7394 Soggetti Ships - Waste disposal - Government policy - United States Marine pollution - Law and legislation - United States Electronic books. Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di contenuto ""SHIPBOARD POLLUTION CONTROL""; ""Copyright""; ""Preface""; ""Acknowledgments""; ""Contents""; ""Executive Summary""; ""Shipboard Pollution Control: The U.S. Navy and MARPOL, Annex V"": ""Recommendations""; ""1 Introduction""; ""Fleet Overview""; ""Operational Environment""; ""Managerial Aspects""; ""Technology""; ""U.S. Navy 1993 Plan""; ""Compliance Activities of Other Navies""; ""United Kingdom""; ""Germany""; ""U.S. Coast Guard Compliance Plan""; ""2 Mechanical Methods""; ""Shredders and Compactors""; ""Pulpers""; ""Food Contamination""; ""Mechanical Processing Equipment"" ""3 Incineration"""Introduction""; ""Applicability of Incineration to Navy Vessels"": ""Factors in the Use of Incineration"": ""Feed Systems""; ""Incinerator Grates""; ""Combustion Chambers""; ""Cooling Systems""; ""Emissions""; ""Organic Compounds""; ""Particulate Matter""; ""Acid Gas""; ""Health and Air Quality Concerns""; ""Obstacles to Incineration""; ""Short-Term Implementation of the Incineration Option""; ""4 Long-Range Options: Competition for Incineration"": ""Alternative Destruction Technologies/Competitors for Incineration""; ""Pyrolytic Methods"" ""Plasma Arc Thermal Conversion Technology""""Vitrification""; ""Molten Metal Pyrolysis""; ""Oxidative Methods""; ""Supercritical Water Oxidation""; ""Other Oxidation Methods""; ""Molten Salt Oxidation""; ""Shipboard Compatibility""; ""Discussion""; ""5 Integrated Systems

Approach""; ""6 Long-Range Options: Advanced Methods for Handling Liquid Waste""; ""Five Sample Methods/Technologies""; ""Biological Treatment of Wastewater""; ""Advanced Separationsa€?Ultrafiltration""; ""Advanced Oxidationa€?Semiconductor Photocatalysis""; ""Electrohydraulic Cavitation"" ""Pulsed-Power Cold-Plasma Reactors"""Shipboard Compatibility""; ""7 Waste Handling on Submarines""; ""References""; ""Appendix A Waste Stream Characterization ""; ""Appendix B Materials Management""; ""Packaging Reduction Opportunities""; ""Shipping Containers""; ""Soft Drinks""; ""Food Packaging""; ""Nonfood Packaging""; ""Summary""; ""Appendix C Air Emissions and Air Quality""; ""Introduction""; ""Measurements of Shipboard Incinerator Emissions""; ""EPA Standards for Municipal Incinerators""; ""Protocol for Characterization of Air Emissions from Navy Shipboard Incinerators"" ""Gaseous Emissions from Plastics Compactors: R&D Needs"""Pollutant Dispersion in the Marine Boundary Layer""; ""Summary and

Conclusions""