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SUMMARIES

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FOREWORD

The U.S. Environmental Protection Agency, under a series of documents exchanges with foreign governments and international organizations, is collecting environmental reports from around the world. This publication, a monthly announcement of documents received by EPA under the exchanges, is distributed to EPA staff and is available to others through the National Technical Information Service (NTIS). See inside cover for subscription rates.

Index System

In each issue the document summaries are grouped by subject, by category of document, and by country. Subject areas, which reflect EPA programs, include:

air	pesticides
water	toxic substances
noise	radiation
solid wastes	land use

Categories of documents are:

1. general
2. legal/legislative/regulatory (LR)
3. planning/management/organization (PM)
4. scientific/technical (ST)
5. socio/economic (SE)

Summaries covering more than one subject are cross-referenced in the Table of Contents. Abstracts appear only once, however, under the primary subject heading marked by an asterisk. For example a British report on "Disposal of Awkward Household Wastes" is indexed under pesticides, solid wastes, water, and toxic substances. The summary appears only once, under solid wastes, but the report title is listed with the EPA ID number under each of the other headings.

Explanation of the codes and abbreviations used with each summary is on page ii.

Translations

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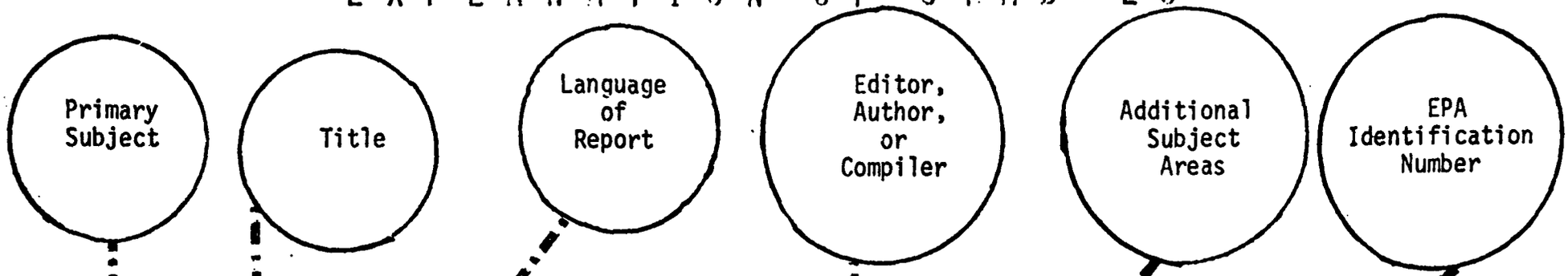
EXPLANATION OF SYMBOLS



ECUADOR

LRA/GENERAL

PAGE 10

"FEBRUARY 4, 1971 SUPREME DECRETT NO. 188 ISSUING THE HEALTH CODE." FOOD AND AGRICULTURAL LEGISLATION, V. 20.
FOOD AND AGRICULTURAL ORGANIZATION, UN, COMP. EPA
ENGLISH 12/00/71 PGS 58-60 ID# 01686A
AIR WATER PESTICIDES RADIATION

THIS COMPREHENSIVE HEALTH DECREE ASSIGNS TO THE EXECUTIVE, ACTING THROUGH THE MINISTRY OF PUBLIC HEALTH, RESPONSIBILITIES IN THE POLITICAL, SOCIAL, AND ECONOMIC SPHERES AS REGARDS PUBLIC HEALTH AND THE ENVIRONMENT AND TO THE NATIONAL HEALTH DIRECTORATE RESPONSIBILITIES IN THE TECHNICAL AND ADMINISTRATIVE SPHERE AND IN THE FORMULATION OF DIRECTIVES AND IN ENFORCEMENT AND EVALUATION.

LRA - LEGAL TEXT

LRB - LEGAL COMMENTARY

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BELGIUM "AUGUST 8, 1975 CROWN DECREE ON THE PREVENTION OF AIR POLLUTION."
BULLETIN USUEL DES LOIS ET ARRETES
EPA
LR(A) FRENCH 00/00/75 PGS 1005-13 ID# 00436P

THIS CROWN DECREE, ISSUED IN PURSUANCE OF THE DECEMBER 28, 1964 LAW ON THE CONTROL OF AIR POLLUTION, ADDRESSES ITSELF TO BOTH CONVENTIONAL AND NON-CONVENTIONAL ELECTRIC THERMAL INSTALLATIONS AND CONTAINS PROVISIONS WHICH CONCERN THE REDUCTION OF POLLUTANTS BEING EMITTED AS WELL AS THE DISPERSION OF GASEOUS EMISSIONS BOTH INSIDE AND OUT OF THE SPECIAL PROTECTION ZONES AGAINST POLLUTION. CHARTS PRESENTING A SCHEDULE OF MAXIMUM ADMISSIBLE POLLUTANT CONCENTRATIONS FOR INSTALLATIONS OF VARYING FUEL TYPES AND CAPACITIES ARE INCLUDED IN THE DECREE. ADDITIONAL PROVISIONS CONCERN AIR MONITORING OF PLANT SITES; MAINTENANCE AND SURVEILLANCE OF THERMAL FACILITIES AND POLLUTION ABATEMENT EQUIPMENT; AND LIQUID FUEL QUALITY CRITERIA.

DENMARK LUFTFORURENING FRA FLY (AIR POLLUTION FROM PLANES). POLLUTION CONTROL BOARD PUBLICATION NO. 22
KRAG, FRITZ
EPA
PM(B) DANISH 03/00/72 PGS 1-29 ID# 03716A
ALSO ST

THIS SURVEY, WHICH WAS SUBMITTED TO THE MAIN AIR COMMITTEE, IS BASED ON CRITERIA ESTABLISHED IN THE 1969 REPORT TO THE U.S. CONGRESS BY THE SECRETARY OF HEALTH, EDUCATION AND WELFARE, "NATURE AND CONTROL OF AIRCRAFT ENGINE EXHAUST EMISSIONS," WHICH IT ADAPTS TO DANISH CIRCUMSTANCES. THE MATERIAL IS TOTALLY BASED ON RESEARCH, AND NO CONTROL MEASURES HAVE BEEN TAKEN. IT DISCUSSES POLLUTION FROM PISTON AND JET ENGINES AND CONTAINS PROVISIONS AND RECOMMENDATIONS ON HOW TO COMBAT THIS PROBLEM. AN APPENDIX DEALS WITH AIR POLLUTION FROM PLANES IN AND AROUND COPENHAGEN'S KASTRUP AIRPORT.

DENMARK PLANTENAERINGSSTOFFER (PLANT FOODS). POLLUTION CONTROL BOARD PUBLICATION NO. 16
EPA
PM(B) DANISH 07/00/71 PGS 1-57 ID# 03724A
*GENERAL WATER

AIR

DENMARK

LUFTFORURENING: OPVARMNINGS- OG VENTILATIONSANLAEG (AIR POLLUTION FROM HEATING AND VENTILATION INSTALLATIONS). POLLUTION CONTROL BOARD PUBLICATION NO. 7

EPA

PM(B) DANISH 05/00/71 PGS 1-102 ID# 03731A

THIS REPORT WAS SUBMITTED BY THE WORKING GROUP OF THE MAIN AIR COMMITTEE, WHICH WAS ESTABLISHED IN 1970 BY THE POLLUTION CONTROL BOARD AND THE TECHNICAL POLLUTION COMMITTEE. IT DEALS WITH POLLUTION IN RELATIONSHIP TO BOILER CLEANING, CHIMNEY CLEANING, SMOKE CLEANING, CHIMNEY TIGHTNESS, CHIMNEY HEIGHT, PERSONNEL QUALIFICATIONS, AND DEGREE OF CENTRALIZATION AT THE FIRING INSTALLATIONS. POLLUTION FROM OIL FURNACES CAUSED BY PLANT CONDITIONS AND THE DANGER OF SMOKE POISONING DUE TO THE ARCHITECTURAL FORM OF THE BOILER WORKS WERE ALSO STUDIED. THE INFLUENCE OF DANISH AUTHORITIES ON BOILER PLANT EQUIPMENT AND OPERATION AND THE INFLUENCE OF SWEDISH AUTHORITIES ON LOCATION, EQUIPMENT, AND OPERATION OF BOILER PLANTS ARE DISCUSSED AS WELL AS POLLUTION CAUSED BY THE INSTALLATION OF AIR VENTS AND DUMPING VENTS FOR COMFORT VENTILATION INSTALLATIONS. IN EACH CASE, THE COMMITTEE HAS INCLUDED RECOMMENDATIONS.

GERMANY,FED REP OF

"IMMISSION PROTECTION: MUST HEAVY HEATING OIL BE DESULFURIZED?" ENVIRONMENT CANADA TRANSLATION DDENV TR-975

HAMANN, ROLF

EPA

PM(B) ENGLISH 00/00/75 PGS 1-14 ID# 03718A

ALSO SE AND LRB

THIS PAPER DISCUSSES WHETHER THE DESULFURIZATION OF HEAVY HEATING OIL IS NECESSARY FOR THE PROTECTION OF AIR QUALITY AND WHETHER IT IS ECONOMICALLY FEASIBLE IN THE FEDERAL REPUBLIC OF GERMANY. AT PRESENT A DRAFT GUIDELINE FOR THE EUROPEAN COMMUNITIES IS UNDER DISCUSSION IN BRUSSELS TO PRESCRIBE ZONES IN WHICH HEAVY HEATING OIL WOULD BE LIMITED TO A MAXIMUM SULFUR CONTENT OF 2 PERCENT BY WEIGHT BEGINNING JUNE 1978 AND TO 1 PERCENT FROM JUNE 1983. IN JUNE 1974 THE GERMAN FEDERAL COUNCIL REQUESTED THE FEDERAL GOVERNMENT TO REDUCE THE SULFUR CONTENT OF HEAVY HEATING OIL BY DECREE TO 1 PERCENT FROM 1982 AND TO 0.8 PERCENT FROM 1985 IN CONJUNCTION WITH THE FEDERAL IMMISSIONS LAW. FUELS MAY UNDERGO DIRECT OR INDIRECT DESULFURIZATION. THE PAPER OUTLINES BOTH PROCESSES TOGETHER WITH THEIR ECONOMIC IMPLICATIONS. (THE PAPER ORIGINALLY APPEARED IN THE GERMAN LANGUAGE PUBLICATION UMWELT, VOL. 5, NO. 3, JUNE 1975, PAGES 55-58.)

GERMANY,FED REP OF

"THE LIMITATION OF EMISSIONS IN WASTE INCINERATING PLANTS: EXPERIENCE GAINED WITH A PILOT PLANT FOR THE DISPOSAL OF NOXIOUS GASES." ENVIRONMENT CANADA TRANSLATION DDENV TR-996

KISTERS, TH., AND H. H. HEBBEL

EPA

PM(B) ENGLISH 00/00/76 PGS 1-15 ID# 03719A

ALSO ST AND SE

AS PART OF A PLANNING PROGRAM TO TEST THE EFFECTIVENESS OF LARGE-SCALE FLUE GAS SCRUBBERS IN WASTE INCINERATORS WITH A CAPACITY OF UP TO 15-30 TONS OF WASTE PER HOUR, A PILOT PLANT WAS INSTALLED IN THE INCINERATOR OPERATED BY THE FEDERAL GERMAN CITY OF DUESSELDORF. THE PLANT WAS INTENDED TO PROVIDE DATA ON THE SEPARATING EFFICIENCIES FOR HYDROGEN CHLORIDE, HYDROGEN FLUORIDE, AND SULFUR DIOXIDE. SECTIONS OF THE CURRENT ARTICLE DISCUSS THE SELECTION OF A SCRUBBER DESIGN, THE CONSTRUCTION OF THE PILOT PLANT, TEST RESULTS, AND HEATING OR COOLING OF FLUE GASES SUBSEQUENT TO SCRUBBING. FINALLY THE CAPITAL AND OPERATING COSTS FOR TWO COMBINATIONS OF EMISSION-LIMITING PLANTS ARE COMPARED. (THE GERMAN ORIGINAL OF THE ARTICLE APPEARED IN AUFBEREITUNGS-TECHNIK, VOL. 15, NO. 5, 1974, PP. 229-233.)

GUATEMALA

GUATEMALA: NATIONAL ENERGY MASTER PLAN: ENVIRONMENTAL ASSESSMENT
GOODLAND, R., AND G. TILLMAN EPA
PM(B) ENGLISH 12/00/75 PGS 1-124 ID# 03763A
ALSO SE
*GENERAL WATER LAND USE

INTERNATIONAL

"AIR POLLUTION PROBLEMS IN LATIN AMERICA." INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN THE ASSESSMENT OF THE HEALTH EFFECTS OF ENVIRONMENTAL POLLUTION, VOL. 1, 1975
HADDAD, R. EPA
PM(B) ENGLISH 00/00/75 PGS 451-456 ID# 03706A
ALSO SE

POINTING OUT SOME OF THE DIVERSE SOCIO-ECONOMIC DIFFERENCES AMONG LATIN AMERICAN COUNTRIES, THIS REPORT SUMMARIZES THE EFFORTS AND PROGRAMS, BOTH NATIONAL AND INTERNATIONAL, UNDERTAKEN IN LATIN AMERICA TO MONITOR AND CONTROL AIR POLLUTION. SERIOUS AIR POLLUTION PROBLEMS ARE CONCENTRATED WITHIN THE LARGER CITIES SUCH AS MEXICO CITY, SAO PAULO, BUENOS AIRES, RIO DE JANEIRO, AND CARACAS AND ARE CAUSED PRIMARILY BY INDUSTRIAL COMBUSTION AND AUTOMOBILE EXHAUSTS. THE MORE INDUSTRIALIZED COUNTRIES, BEING THE WORST AFFECTED, HAVE TAKEN STEPS AND MADE INITIAL CONTRIBUTIONS TO THE CONTROL OF AIR POLLUTION, BUT RESEARCH ON AIR POLLUTION IN LATIN AMERICA IS JUST BEGINNING, THE MAJOR DETERRENT ON GOOD CONTROL PROGRAMS BEING A SCARCITY OF WELL TRAINED PERSONNEL. INTERNATIONALLY THE PAN AMERICAN HEALTH ORGANIZATION HAS MADE SIGNIFICANT CONTRIBUTIONS IN PROMOTING COOPERATION BETWEEN THE NATIONAL GOVERNMENTS AND UNIVERSITIES, THE MOST IMPORTANT BEING THE OERATION OF A 92-STATION AIR POLLUTION MONITORING NETWORK IN 13 COUNTRIES.

NETHERLANDS

"JULY 1, 1975 DECREE IMPLEMENTING ART. 75...OF THE AIR POLLUTION LAW (DECREE ON THE FUNCTIONS OF PROVINCIAL AND COMMUNAL AIR POLLUTION OFFICIALS)." STAATSBLAD, NO. 470 (1975)
EPA
LR(A) DUTCH 00/00/75 PGS 1-4 ID# 00409D

ISSUED BY THE MINISTER OF HEALTH AND ENVIRONMENT, THIS DECREE IS INTENDED TO PROMOTE AN EFFICIENT AND COORDINATED PERFORMANCE OF THE FUNCTIONS ASSIGNED TO PROVINCIAL, COMMUNAL AND CENTRAL GOVERNMENT OFFICIALS UNDER THE 1970 AIR POLLUTION LAW, ARTICLE 75, PARAGRAPH 3. ARTICLE ONE PLACES IN THE HANDS OF THE PROVINCIAL EXECUTIVES THE CHIEF RESPONSIBILITY FOR PROMOTING COOPERATION AMONG AIR POLLUTION OFFICIALS ON VARIOUS GOVERNMENT LEVELS. ARTICLE 2 STIPULATES THAT OFFICIAL INSTRUCTIONS ISSUED BY PROVINCIAL AND COMMUNAL OFFICIALS ARE TO CONTAIN RULES PROMOTIVE OF COOPERATION, COORDINATION AND A SATISFACTORY DISTRIBUTION OF FUNCTIONS AMONG OFFICIALS ON VARIOUS LEVELS. ARTICLES 3 AND 4 ARE DESIGNED TO GUARANTEE THAT OFFICIALS WORKING ON ALL LEVELS INFORM OFFICIALS ON OTHER LEVELS OF THEIR ACTIVITIES AND FINDINGS. AN EXPLANATORY NOTE ACCOMPANIES THE DECREE, WHICH CAME INTO EFFECT ON OCTOBER 1, 1975.

AIR

NORWAY

"CAR TRASH IN NORWAY." AFTENPOSTEN
ANDERSEN, HANS PETER
EPA
LR(B) NORWEGIAN 03/30/76 PGS 24 ID# 03741A
NOISE

THIS ARTICLE URGES NORWAY TO FOLLOW THE DEVELOPMENT IN SWEDEN, THE ONLY COUNTRY IN EUROPE WITH STRICT REQUIREMENTS FOR EXHAUST FUME EMISSIONS FROM CARS, EFFECTIVE AS OF APRIL 1, 1976. THE FACT THAT THERE WILL BE TWICE AS MANY CARS IN THE YEAR 2000 MAKES THE ESTABLISHMENT OF LIMITATIONS ON AIR POLLUTION AS WELL AS ON NOISE EMISSIONS OF GREAT IMPORTANCE. IT IS ALSO FEARED THAT SINCE CARS CANNOT BE SOLD IN COUNTRIES LIKE SWEDEN WITHOUT FIRST SATISFYING THE NEW DEMANDS, NORWAY WILL GET LESS ENVIRONMENTALLY RESTRICTED CARS ON ITS MARKET AND THUS BE LIKE A GARBAGE DUMP FOR CAR MANUFACTURERS IF IT DOES NOT FOLLOW SUIT.

NORWAY

"SULFUR THE BIGGEST ENVIRONMENTAL PROBLEM." AFTENPOSTEN
EPA
PM(B) NORWEGIAN 03/16/76 PGS 20 ID# 03704A

THE MOST SERIOUS ENVIRONMENTAL PROBLEM IN CONNECTION WITH AN OIL-FIRED THERMAL PLANT IS THE EMISSION OF SULFUR DIOXIDE INTO THE ATMOSPHERE. THE FALLOUT DESCENDS IN THE FORM OF ACID PRECIPITATION. EVEN IF THE FIRING OIL CONTAINS ONLY 0.5 PERCENT SULFUR, ABOUT 2600 KILO SULFUR DIOXIDE WILL BE EMITTED EVERY HOUR. THE FIRST NORWEGIAN OIL-FIRED THERMAL POWER PLANT IS EXPECTED TO OPERATE 3500 HOURS PER YEAR, IT IS REPORTED IN THIS ARTICLE. ALSO INDICATED ARE THE AREAS IN NORWAY THAT WILL BE MOST EXPOSED TO SULFUR DIOXIDE EMISSIONS, DEPENDING UPON WHERE IN THE COUNTRY THE INTENDED POWER PLANT IS LOCATED.

SCANDINAVIA

"SEMINAR ON EMISSION LIMITING MEASURES AT AIR POLLUTING INSTALLATIONS."
NORDFORSK: MILJOVARDSSEKRETARIATET PUBLIKATION 1971:3
EPA
LR(B) SWEDISH 00/00/71 PGS 1-43 ID# 03723A
ALSO PMB

THIS BOOKLET CONTAINS THE PROCEEDINGS OF A SEMINAR WHICH TOOK PLACE IN STOCKHOLM DURING NOVEMBER 12-13, 1969. THE BASIS FOR THE CONFERENCE WAS THE TECHNICAL ANALYSIS OF EMISSION PROBLEMS, WHICH THE NATIONAL SWEDISH ENVIRONMENT PROTECTION BOARD HAD CONDUCTED IN CLOSE COOPERATION WITH REPRESENTATIVES FROM THE METALLURGICAL INDUSTRY, THE AGRICULTURAL AND STONE INDUSTRY, THE FOREST INDUSTRY, THE CHEMICAL INDUSTRY, AND IN COMBUSTION PLANTS AND ODOROUS ESTABLISHMENTS NOT INCLUDED IN THE FOREST INDUSTRY SECTION. THE BOARD HAD, BASED ON THESE FINDINGS, WORKED OUT GUIDELINES FOR EMISSION LIMITING MEASURES, TAKING INTO CONSIDERATION BOTH TECHNICAL AND ECONOMIC FEASIBILITY. THE PURPOSE OF THE SEMINAR WAS TO EXPLORE THE POSSIBILITY OF ESTABLISHING JOINT SCANDINAVIAN NORMS AND GUIDELINES AS WELL AS DETERMINING THE NEED FOR TANGIBLE INTER-SCANDINAVIAN RESEARCH AND DEVELOPMENT PROJECTS ON EMISSION LIMITING MEASURES.

SWEDEN LIMITATION OF SULFUR DIOXIDE EMISSIONS - A STUDY OF CONTROL MEASURES.
SOU 1974:101
EPA
PM(B) SWEDISH* 00/00/74 PGS 1-252 ID# 03749A
ALSO SE/*SUMMARY IN ENGLISH

THE MAIN OBJECTIVE OF THIS REPORT, SUBMITTED BY A COMMITTEE ON COSTS FOR ENVIRONMENTAL MANAGEMENT ESTABLISHED IN 1971 BY THE MINISTER OF AGRICULTURE, HAS BEEN TO EXAMINE VARIOUS CONTROL MEASURES USED IN ENVIRONMENTAL PROTECTION POLICY AS APPLIED TO THE ENVIRONMENTAL PROBLEMS CREATED WHEN SULFUR DIOXIDE IS RELEASED INTO THE ATMOSPHERE. THE COMMITTEE PROPOSED: THAT THE PRESENT SYSTEM OF CONTROL METHODS BE RETAINED AND THAT THE INTRODUCTION OF EMISSION CHARGES BE REJECTED; THAT A DISPENSATION CHARGE BE INTRODUCED BY MEANS OF AN APPENDIX TO THE ORDINANCE GOVERNING RESTRICTIONS ON SULFUR CONTENT IN FUEL OIL; THAT THE REGULATIONS IN THIS ORDINANCE BE MADE APPLICABLE TO ALL FOSSILIZED FUELS CONTAINING SULFUR; THAT THE FORMULATION OF THE ENERGY TAX BE EXAMINED TO INVESTIGATE THE POSSIBILITIES OF INTRODUCING THE SULFUR CONTENT OF FUEL AS A FACTOR IN DETERMINING THE TAX RATE; AND THAT MUNICIPALITIES BE GIVEN MORE OPPORTUNITIES TO PLAN AND CONTROL ENERGY SUPPLIES IN URBAN AREAS.

SWEDEN "INCINERATION OF WASTE CONTAINING DDT AND LINDANE." IVL - SWEDISH WATER AND AIR POLLUTION RESEARCH LABORATORY
AHLING, BENGT
EPA
ST( ) SWEDISH 05/00/76 PGS 1-20 ID# 03742A
PESTICIDES

DDT AND LINDANE HAVE BEEN USED AS INSECTICIDES IN SWEDEN FOR MANY YEARS. SINCE THE BANNING OF DDT IN 1969, LARGE QUANTITIES OF DDT AND LINDANE HAVE REMAINED IN STORAGE. THIS REPORT DESCRIBES SOME EXPERIMENTS WHICH WERE PERFORMED TO INVESTIGATE THE POSSIBILITIES OF DESTROYING THESE STOCKS BY INCINERATION. THE EXPERIMENTS SHOW THAT THE EMISSION OF P,P-DDT WAS LOWER THAN 300 MG PER KG DDT AT A TEMPERATURE OF 600 DEGREES C AND LOWER THAN 1 MG PER KG AT A TEMPERATURE OF 800 DEGREES C. DURING THE DESTRUCTION OF DDT, DDE IS PRODUCED. THIS PROCESS EMITS 2600 MG DDT PLUS DDE PER KG DDT AT 600 DEGREES C AND LESS THAN 80 MG DDT PLUS DDE PER KG DDT AT 800 DEGREES C. IN SOME OF THE EXPERIMENTS, THE HOLDING TIME WAS VARIED BETWEEN 1.6 TO 4.6 SECONDS. IT WAS, HOWEVER, NOT POSSIBLE TO OBSERVE ANY EFFECT ON THE DESTRUCTION EFFICIENCY.

AIR

SWITZERLAND

SCHWEFELDIOXID-EMISSIONSKATASTER 1970 (SULFUR DIOXIDE EMISSIONS MAP 1970).
EMPA NO. 24000
SWITZERLAND. FEDERAL OFFICE FOR ENVIRONMENTAL PROTECTION EPA
PM(B) GERMAN 04/08/74 PGS 1-37 ID# 03693A

THIS PRELIMINARY STUDY OF THE EXTENT AND GEOGRAPHIC DISTRIBUTION OF SULFUR DIOXIDE EMISSIONS IN SWITZERLAND AND LIECHTENSTEIN WAS CARRIED OUT BY THE SWISS FEDERAL MATERIAL TESTING AND RESEARCH INSTITUTE UNDER CONTRACT TO THE FEDERAL OFFICE FOR ENVIRONMENTAL PROTECTION. CUSTOMS INFORMATION ABOUT IMPORTED FUELS AND PROPELLANTS AND THEIR SULFUR CONTENT FORMED THE BASIS OF THE STUDY. DATA ABOUT POPULATION DENSITY, CLIMATIC CONDITIONS, AND HEAT-PRODUCING BOILERS (OBTAINED FROM THE SWISS UNION OF BOILER OWNERS) HELPED DEFINE QUANTITATIVE AND GEOGRAPHIC FACTORS. THIS BASE WAS EXPANDED BY INFORMATION ON SPECIAL SOURCES OF EMISSIONS, SUCH AS CEMENT AND SULFURIC ACID PRODUCTION AND WASTE INCINERATORS. THE INFORMATION IS PRESENTED IN DETAIL IN THIS PUBLICATION IN 27 PAGES OF TABLES AND MAPS. (THE FULL TITLE OF THE PUBLICATION IS EMISSIONSKATASTER FUER SCHWEFELDIOXID FUER DAS GEBIET DER SCHWEIZ UND LIECHTENSTEINS FUER DAS JAHR 1970 - EMISSIONS MAP FOR SULFUR DIOXIDE IN SWITZERLAND AND LIECHTENSTEIN FOR 1970.

SWITZERLAND

ELEKTROSTAHLWERKE (ELECTRIC STEEL PLANTS: FIRST REPORT OF THE COMMISSION FOR CONSIDERATION OF ENVIRONMENTAL PROBLEMS IN METALLURGY INDUSTRIES)
EPA
PM(B) GERMAN 08/00/76 PGS 1-12 ID# 03714A
WATER NOISE

THE FEDERAL DEPARTMENT OF THE INTERIOR ESTABLISHED A "FEDERAL COMMISSION OF EXPERTS TO CONSIDER ENVIRONMENTAL PROBLEMS IN THE METALLURGY INDUSTRIES" ON JUNE 14, 1972 TO SUGGEST TECHNICAL MEASURES TO LIMIT AIR, WATER AND NOISE POLLUTION IN THE INDUSTRIES. ITS MEMBERS FOUND IT NECESSARY TO CONSIDER PARTS OF THE INDUSTRY INDIVIDUALLY AND BEGAN WITH THE ELECTRIC STEEL INDUSTRY. THIS FIRST COMMISSION REPORT DESCRIBES THE APPROACH TO THE TASK, THE RESULTS AND CONCLUSIONS, AND SUGGESTIONS FOR IMPROVEMENT. THE CONCLUSIONS AND RECOMMENDATIONS SECTIONS TREAT THE PROBLEM AREAS OF AIR, WATER AND NOISE AND THE TASKS OF RESEARCH, MONITORING AND SUPERVISION SEPARATELY. A FINAL SECTION DEALS WITH THE LEGAL BASES FOR PROPOSED MEASURES.

USSR

PROBLEMI KONTROLYA I OBESPECHENIYA CHISTOTI ATMOSFERI (PROBLEMS OF CONTROL AND ASSURING CLEANLINESS OF THE ATMOSPHERE)
USSR. HYDROMETECROLCGICAL SERVICE EPA
PM(B) RUSSIAN 00/00/75 PGS 1-192 ID# 03758A
ALSO ST

THIS PUBLICATION IS A COLLECTION OF PAPERS REPRESENTING THE PROCEEDINGS OF AN ALL-UNION MEETING ON METHODS OF AIR POLLUTION RESEARCH ORGANIZED BY THE NATIONAL EXHIBITION OF ECONOMIC ACHIEVEMENT IN MOSCOW DURING APRIL, 1973. THE 28 PAPERS PUBLISHED IN THIS BOOK, EACH HAVING A SEPARATE ABSTRACT IN THE BACK OF THE BOOK, TREAT THE VARIOUS ASPECTS OF AIR POLLUTION CONTROL FROM INDUSTRIAL ACTIVITY INCLUDING GENERAL MEASURES, TECHNOLOGICAL DEVICES FOR AIR POLLUTION CONTROL, METHODS AND INSTRUMENTS FOR MEASURING AIR POLLUTICN, POLLUTANT DIFFUSION UNDER DIFFERENT METEOROLOGICAL CONDITIONS, THE INFLUENCE OF POLLUTANTS ON THE ENVIRONMENT, AND METHODS OF PREDICTING AND WARNING OF DANGEROUS METEOROLOGICAL CONDITIONS.

GENERAL

BELGIUM

"AUGUST 1, 1974 LAW CREATING REGIONAL INSTITUTIONS AS A PRELIMINARY STEP IN THE IMPLEMENTATION OF CONSTITUTIONAL ARTICLE 107 QUATER." BULLETIN USUEL DES LOIS ET ARRETES
EPA
LR(A) FRENCH 00/00/74 PGS 832-34 ID# 03735A
*WATER

DENMARK

PLANTENAERINGSSTOFFER (PLANT FOODS). POLLUTION CONTROL BOARD PUBLICATION NO. 16
EPA
PM(B) DANISH 07/00/71 PGS 1-57 ID# 03724A
WATER AIR

SINCE FERTILIZERS AND MANURE ARE OF UTMOST IMPORTANCE FOR THE PRODUCTION AND ECONOMY OF DANISH AGRICULTURE, THE POSSIBLE POLLUTION DUE TO THEIR USE HAS BEEN OF CONSIDERABLE CONCERN. THE ANNUAL IMPORT OF DANISH FERTILIZERS CONSISTS OF ABOUT 250 MILLION KG NITROGEN, 150 MILLION KG POTASSIUM, AND 50 MILLION KG PHOSPHORUS. THE AMOUNT OF FARMYARD MANURE USED ANNUALLY CONTAINS THE SAME AMOUNTS OF POTASSIUM AND PHOSPHORUS BUT ONLY ABOUT HALF AS MUCH NITROGEN. ACCORDING TO THIS REPORT, FILED BY THE PLANT FOOD WORKING GROUP ESTABLISHED BY THE MAIN GROUND COMMITTEE, WHICH WAS APPOINTED BY THE POLLUTION CONTROL BOARD AND THE TECHNICAL POLLUTION COMMITTEE, NO PROOF HAS BEEN FOUND THAT THE ABOVE AMOUNTS OF FERTILIZER HAVE ANY ADVERSE EFFECTS ON CROPS OR THE AIR OR THAT THEY NORMALLY CAUSE WATER POLLUTION. THE GROUP ADMITS, HOWEVER, THAT THE SUBJECT OF POSSIBLE WATER POLLUTION LEAVES A NUMBER OF UNANSWERED QUESTIONS AND THAT ADDITIONAL RESEARCH IN THIS FIELD IS NEEDED.

FRANCE

"GOVERNMENT STUDIES THE CREATION OF A VAST MINISTRY FOR DAILY LIFE."
LE MONDE
AMBROISE-RENDU, MARC
EPA
PM(A) FRENCH 07/08/76 PGS 18 ID# 03713A

THIS ARTICLE, ON THE INADEQUACIES OF THE FRENCH SYSTEM OF ENVIRONMENTAL PROTECTION, EXAMINES THE FRAGMENTARY APPROACH TO THE ENVIRONMENT WHICH HAS BEEN PRACTICED IN FRANCE UP TO THIS TIME. A REVIEW OF THE ADMINISTRATIVE ORGANIZATION OF ENVIRONMENTAL RESPONSIBILITIES SHOWS FUNCTIONS TO BE DISTRIBUTED AMONG FIVE MINISTERS AND STATE SECRETARIES: MR. FOSSET FOR THE QUALITY OF LIFE; MR. GRANET FOR THE ENVIRONMENT; MR. GALLEY FOR EQUIPMENT; MR. GUY FOR SITES; AND MR. PONIATOWSKY FOR LAND USE. THE AUTHOR CALLS FOR A REFORM OF MINISTERIAL STRUCTURES AND PROPOSES A SOLUTION CONSISTING OF A NEW MINISTERIAL DEPARTMENT, MODELED ON THE BRITISH SYSTEM, WHICH WOULD ASSEMBLE THOSE OFFICIALS CONCERNED WITH ENVIRONMENTAL QUALITY. INCLUDED WOULD BE: ANTIPOLLUTION AND PROTECTION OF NATURE SERVICES (ENVIRONMENT); URBAN LAND PLANNING (EQUIPMENT); ARCHITECTURAL SERVICES (CULTURE); THE LITTORAL CONSERVANCY (INTERIOR); AND PERHAPS EVEN RURAL LAND USE (AGRICULTURE). SUGGESTED TITLE IS: THE MINISTER FOR DAILY LIFE.

GENERAL

FRANCE

"POLLUTION: CONTROL IN ALL MAJOR CITIES BY 1978." LE FIGARO
SCHWEITZER, GENEVIEVE EPA
PM(B) FRENCH 03/03/76 PGS 1, 6 ID# 03738A

BY 1978, ACCORDING TO AN ANNOUNCEMENT OF THE NEWLY APPOINTED FRENCH STATE SECRETARY FOR THE ENVIRONMENT, MR. PAUL GRANET, ALL MAJOR FRENCH INDUSTRIAL CENTERS AND CITIES WITH MORE THAN 100,000 INHABITANTS WILL BE EQUIPPED WITH AIR POLLUTION MONITORING SYSTEMS, UNCONTROLLED DUMPS WILL BE CLEARED AWAY AND POLLUTED RIVERS WILL BE CLEANED UP. IN A DISCUSSION OF HIS VARIOUS PROJECTS AND PROGRAMS FOR THE NEAR FUTURE, MR. GRANET ALSO INCLUDED THE FOLLOWING: THE PRESENTATION TO PARLIAMENT OF A BILL ON QUARRIES; THE ESTABLISHMENT OF THE AGENCY FOR THE ELIMINATION AND RECOVERY OF WASTES IN COMPLIANCE WITH THE 1975 LAW; THE CREATION OF A NATIONAL AIR AGENCY TO COMBAT AIR POLLUTION; AND THE ACTIVE CONTROL OF NOISE POLLUTION BY MEANS OF A NEW COUNCIL OF MINISTERS COMMUNIQUE.

GREAT BRITAIN

DEPARTMENT OF THE ENVIRONMENT ANNUAL LIST OF PUBLICATIONS 1975
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
PM(A) ENGLISH 05/00/76 PGS 1-146 ID# 03759A

THIS IS THE FIFTH ANNUAL LIST GIVING FULL DETAILS OF ALL PUBLICATIONS WHICH ARE OF MORE THAN LOCAL INTEREST AND AVAILABLE TO THE PUBLIC ISSUED IN 1975 BY THE BRITISH DEPARTMENT OF THE ENVIRONMENT. THE PREFACE OF THE LIST CONTAINS GENERAL INFORMATION AND INSTRUCTIONS FOR THE USE OF THE LIST, AND THE PUBLISHED TITLES ARE ARRANGED IN SECTIONS WHICH ARE FURTHER DIVIDED INTO SUBJECT CATEGORIES. THE SECTIONS INCLUDE: 1) TITLES PUBLISHED FOR THE DEPARTMENT BY HER MAJESTY'S STATIONERY OFFICE; 2) DEPARTMENTAL PUBLICATIONS; 3) ACTS; 4) STATUTORY INSTRUMENTS; 5) DEPARTMENTAL CIRCULARS; 6) PUBLICATIONS OF THE DEPARTMENT'S RESEARCH ESTABLISHMENTS; 7) PUBLICATIONS OF THE COUNTRYSIDE COMMISSION, THE CENTRAL WATER PLANNING UNIT, THE WATER DATA UNIT, AND THE WATER RESOURCES BOARD; AND 8) MAPS. INDEXES AND INSTRUCTIONS FOR THEIR USE ARE GIVEN IN THE BACK OF THE LIST.

GUATEMALA

GUATEMALA: NATIONAL ENERGY MASTER PLAN: ENVIRONMENTAL ASSESSMENT
GOODLAND, R., AND G. TILLMAN EPA
PM(B) ENGLISH 12/00/75 PGS 1-124 ID# 03763A
ALSO SE
WATER LAND USE AIR

GUATEMALA'S 25-YEAR NATIONAL ENERGY PLAN, CURRENTLY BEING PREPARED BY THE GUATEMALAN NATIONAL ELECTRIFICATION INSTITUTE (INDE) WITH THE ASSISTANCE OF THE WEST GERMAN GOVERNMENT, IS ASSESSED FROM THE ENVIRONMENTAL VIEWPOINT IN THIS STUDY. THE ASSESSMENT WAS CONDUCTED AT THE REQUEST OF INDE BY THE ENVIRONMENTAL ADVISORY GROUP, CONSISTING OF GUATEMALAN ENVIRONMENTALISTS AND ENVIRONMENTAL REPRESENTATIVES OF THE CARY ARBORETUM OF THE NEW YORK BOTANICAL GARDEN. IN LEADING UP TO THE OVERALL ENVIRONMENTAL ASSESSMENT OF THE NATIONAL ENERGY PLAN, THE STUDY DESCRIBES THE ELEVEN PROPOSED POWER PROJECTS OF THE PLAN AND IDENTIFIES THEIR POSSIBLE IMPACT ON HUMAN ECOLOGY; ON THE USE OF WATER COURSES; ON WATERSHED MANAGEMENT AND WATER QUALITY; AND ON NATIONAL PARKS AND WILDLIFE. THE STUDY CONCLUDES WITH AN EVALUATION AND RANKING IN ORDER OF ENVIRONMENTAL PREFERENCE FOR THE PROPOSED PROJECTS AND BRIEFLY REVIEWS THE STATE OF ENVIRONMENTAL CONSERVATION AND THE EXISTING CONSERVATION LAWS IN GUATEMALA.

GENERAL

NORWAY "ENVIRONMENTAL SECRETARIAT FOR ALUMINUM." AFTENPOSTEN

EPA

PM(B) NORWEGIAN 03/25/76 PGS 23 ID# 03703A

THE NORDIC ALUMINUM INDUSTRY HAS ESTABLISHED A JOINT ENVIRONMENTAL SECRETARIAT IN ORDER TO COORDINATE RESEARCH IN THE AREAS OF HEALTH, OCCUPATIONAL SANITATION, PROTECTION, AND ENVIRONMENTAL TECHNOLOGY. MEMBERS INCLUDE ALL NORWEGIAN PRODUCERS OF PRIMARY ALUMINUM AND THE SWEDISH GRANGES ALUMINUM COMPANY. THE SECRETARIAT WILL HAVE ITS HEADQUARTERS IN OSLO AND WILL BE HEADED BY CHIEF ENGINEER JORGEN JAHR, IT IS REPORTED IN THIS ARTICLE.

NORWAY "SECURITIES FOR ENVIRONMENTAL PROTECTION LOANS OF TWO BILLION NORWEGIAN KRONER TO INDUSTRY." AFTENPOSTEN

EPA

SE( ) NORWEGIAN 04/09/76 PGS 2 ID# 03754A
ALSO PMB

THE CABINET HAS PROPOSED THAT THE MINISTRY OF ENVIRONMENT BE AUTHORIZED TO INCREASE FROM 1.5 BILLION TO 2 BILLION NORWEGIAN KRONER THE TOTAL AMOUNT OF LOANS IT MAY GRANT FROM THE INDUSTRIAL BANK FOR ENVIRONMENTAL INVESTMENTS IN ESTABLISHED INDUSTRY. A PROPOSAL WAS ALSO MADE TO GRANT LOANS AND SECURITIES TO ESTABLISHMENTS IN ORDER TO IMPROVE THE USE OF ENERGY IN INDUSTRY. THE FERRO-ALLOY INDUSTRY HAS ALREADY DEVELOPED A METHOD TO USE THE ENERGY CONTENT IN EXHAUST FUMES FROM MELTING FURNACES, EITHER DIRECTLY AS STEAM OR IN ELECTRICITY PRODUCTION. FROM A SOCIO-ECONOMIC POINT OF VIEW, THIS IS VERY DESIRABLE, ALTHOUGH IT MIGHT NOT BE PROFITABLE IN TERMS OF DIRECT PRODUCTION COSTS. THE PROPOSED SUBSIDY FOR BETTER ENERGY PRODUCTION WILL BE LIMITED TO LONG-TERM LOANS AND GOVERNMENT GUARANTEES FOR MARKET VALUE LOANS WITHIN THE FRAMEWORK OF THE INDUSTRIAL BANK'S QUOTA FOR ENVIRONMENTAL PROTECTION ENTERPRISES. INDUSTRY WILL ALSO HAVE TO MAKE A CONTRIBUTION DEPENDING ON THE PROFITABILITY AND RISKS INVOLVED IN EACH PROJECT.

SWEDEN "INVESTMENTS IN ENVIRONMENTAL PROTECTION IN THE PERIOD 1970-1980." CURRENT SWEDEN, NO. 63
EMMELIN, LARS

EPA

SE( ) ENGLISH 04/00/76 PGS 1-4 ID# 03709A
ALSO PMB
SOLID WASTE WATER NOISE

THIS ISSUE OF "CURRENT SWEDEN" REVIEWS THE PROJECTIONS FOR INVESTMENTS IN POLLUTION CONTROL BY BOTH THE PUBLIC AND PRIVATE SECTORS. THE ACHIEVEMENTS IN THE FIELDS OF LEGISLATION AND PROGRAMS, INVOLVING SUBSIDIES AND FINES FOR POLLUTION, AS WELL AS THE SECURING OF VALUABLE LAND FOR NATURE RESERVES, DURING THE PAST FIVE YEARS, ARE REVIEWED. THE PROGNOSIS OF THE NEED FOR INVESTMENTS DURING 1970-1980 IS PRESENTED. OVERALL, NO CHANGE IS EXPECTED IN INDUSTRIAL INVESTMENT NEED, WITH THE EXCEPTION OF THE CHEMICAL INDUSTRY AND THE PULP AND PAPER INDUSTRY, WHICH REGISTER A 10 PERCENT INCREASE. THE NEED AND REASONS FOR CONTINUED INVESTMENTS IN MUNICIPAL SEWAGE TREATMENT ARE DISCUSSED. THE PROPORTION OF MUNICIPAL SOLID WASTE DISPOSAL INVESTMENTS FOR ITEMS SUCH AS TREATMENT PLANTS IS EXPECTED TO INCREASE FROM ABOUT A QUARTER TO ABOUT TWO-THIRDS. AN APPENDED TABLE SUMMARIZES THE INVESTMENTS NEEDED IN POLLUTION CONTROL AND INCLUDES NOISE ABATEMENT IN ACCORDANCE WITH PROPOSALS SUBMITTED BY A SPECIAL COMMITTEE ON TRAFFIC NOISE.

GENERAL

SWEDEN

"THE EFFECTS OF THE PACKAGING FEE." SOU 1974:44
EPA
SE( ) SWEDISH 00/00/74 PGS 1-123 ID# 03750A
ALSO PMB
SOLID WASTE

ON THE FIRST OF MARCH, 1973, A FEE ON CERTAIN BEVERAGE CONTAINERS WENT INTO EFFECT IN SWEDEN WITH THE PRIMARY PURPOSE OF USING THE ADDITIONAL REVENUE TO COVER EXPENSES CAUSED BY A PRICE FREEZE ON SPECIFIC FOODS. THE COMMITTEE ON COSTS FOR ENVIRONMENTAL MANAGEMENT HAS SUBMITTED A REPORT ON THIS MATTER, DISCUSSING THE FOLLOWING TOPICS: THE ROLE OF BEVERAGE CONTAINERS IN THE COMMUNITY; BEVERAGE CONTAINERS AND THE ENVIRONMENT; THE ADMINISTRATION OF FEES AND THE GOVERNMENT'S FINANCIAL PROFIT; THE PARTIES INTERESTED IN BEVERAGE CONTAINERS; AND THE EFFECTS OF THE FEE. THE COMMITTEE CONCLUDES THAT THE PROJECT, WHICH, INCLUDING TAX, BROUGHT IN AN ESTIMATED 120 MILLION SWEDISH KRONOR BETWEEN MARCH 1, 1973 AND FEBRUARY 28, 1974 HAS NOT HAD ANY PARTICULAR IMPACT ON COSTS, OCCUPATION, OR ENVIRONMENT. EVEN WHEN ONLY ENVIRONMENTAL ASPECTS WERE CONSIDERED, INSIGNIFICANT EFFECTS WERE REGISTERED.

LAND USE

GUATEMALA

GUATEMALA: NATIONAL ENERGY MASTER PLAN: ENVIRONMENTAL ASSESSMENT
GOODLAND, R., AND G. TILLMAN
EPA
PM(B) ENGLISH 12/00/75 PGS 1-124 ID# 03763A
ALSO SE
*GENERAL WATER AIR

SWITZERLAND

"WHAT'S IN THE LAND USE PLANNING LAW?" NEUE ZUERCHER ZEITUNG
EPA
LR(B) GERMAN 05/06/76 PGS 27 ID# 03745A
ALSO PMB

ON JUNE 13 THE CITIZENS OF SWITZERLAND WILL VOTE IN REFERENDUM ON THE LAND USE LAW PASSED BY THE FEDERAL ASSEMBLY IN OCTOBER 1974. THE LAW CONSISTS OF SEVEN PARTS, THE FIRST OF WHICH OUTLINES THE PURPOSE AND TASKS OF LAND USE PLANNING. PART TWO DELINEATES THE RESPONSIBILITIES OF THE VARIOUS LEVELS OF GOVERNMENT. BASICALLY, THE FEDERAL GOVERNMENT ESTABLISHES GENERAL PROVISIONS, THE CANTONS DEVELOP THE ACTUAL PLANS, AND IMPLEMENTATION FALLS TO THE MUNICIPALITIES. THE FEDERAL GOVERNMENT ALSO HAS THE POWER TO EXPROPRIATE LAND UNDER CERTAIN CIRCUMSTANCES AND TO TAX EXCESS VALUE OF LAND DERIVED FROM PLANNING. PART THREE OF THE LAW PROVIDES THAT FEDERAL FUNDS WILL BE USED TO PROMOTE PLANNING EFFORTS, ESPECIALLY IN AGRICULTURE AND FORESTRY TO EQUALIZE ECONOMICALLY DEMANDS IMPOSED BY PLANNING. PART FOUR OF THE LAW FURTHER DEVELOPS THE IDEA OF EXPROPRIATION, AND THE LAST THREE PARTS OF THE LAW CONTAIN ORGANIZATIONAL, LEGAL AND CLOSING PROVISIONS. THIS ARTICLE DISCUSSES THE GOALS AND ECONOMIC ASPECTS OF THE LAW IN DEPTH.

BELGIUM "CROWN DECREE ON THE REGULATION OF THE TECHNICAL REQUIREMENTS TO BE MET BY MOTORBIKES, MOTORCYCLES AND THEIR TRAILERS." BULLETIN USUEL DES LOIS ET ARRETES

EPA

LR(A) FRENCH 00/00/75 PGS 1015-24 ID# 00435B

THIS DECREE, ISSUED BY THE CROWN IN PURSUANCE OF THE MARCH 14, 1968 DECREE REGARDING GENERAL REGULATIONS ON ROAD TRAFFIC POLICE, APPLIES TO MOTORBIKES AND MOTORCYCLES. PRESCRIPTIONS CONCERN THE APPROVAL BY TYPE OF VEHICLES, WHICH IS TO BE ISSUED BY THE MINISTER OF COMMUNICATIONS; APPROVAL APPLICATION PROCEDURES; AND TECHNICAL REQUIREMENTS ON VEHICLE CONSTRUCTION, NOISE EMISSIONS, BRAKE MECHANISMS, AND GENERAL EQUIPMENT. NOISE LIMITS PRESCRIBED FOR NEW VEHICLES RANGE FROM 75 DB TO 84 DB, ACCORDING TO CYLINDER CAPACITY, AND FROM 90 DB TO 99 DB FOR VEHICLES ALREADY IN OPERATION.

DENMARK STOJ: BYGGE- OG ANLAEGSVIRKSOMHED (NOISE FROM BUILDING AND CONSTRUCTION ACTIVITIES). POLLUTION CONTROL BOARD PUBLICATION NO. 9

EPA

PM(B) DANISH 07/00/71 PGS 1-120 ID# 03715A

THE HAZARDOUS EFFECTS OF NOISE ON HEALTH ARE DISCUSSED IN THIS REPORT, WHICH WAS SUBMITTED BY THE WORKING GROUP ON NOISE FROM BUILDING AND CONSTRUCTION ACTIVITIES COMMISSIONED BY THE MAIN NOISE COMMITTEE, A BODY WHICH WAS ESTABLISHED BY THE POLLUTION CONTROL BOARD AND THE TECHNICAL POLLUTION COMMITTEE IN 1970. THE REPORT ALSO DEALS WITH PHYSICAL AND GENERAL PHYSIOLOGICAL EFFECTS OF NOISE AS WELL AS HOW NOISE AFFECTS MAN'S ABILITY TO REST, SLEEP, AND WORK. EXISTING REGULATIONS AND GUIDELINES FOR LIMITATION OF NOISE IN DENMARK AND IN A NUMBER OF OTHER EUROPEAN COUNTRIES ARE INCLUDED. SEVERAL PERTINENT GERMAN AND SWISS DOCUMENTS (IN GERMAN) CONTAINING A NUMBER OF SKETCHES AND CHARTS ARE APPENDED.

DENMARK EN BETAENKNING AFGIVET AF ARBEJDSGRUPPEN VEDRORENDE FLYSTOJ (A REPORT DELIVERED BY THE WORKING GROUP FOR AIRPLANE NOISE). POLLUTION CONTROL BOARD PUBLICATION NO. 25

EPA

PM(B) DANISH 03/00/72 PGS 1-142 ID# 03755A

THE EVALUATION OF NOISE FROM AIRPLANES, THE DETERMINATION OF ITS CONDITIONS AND THE TECHNICAL POSSIBILITIES FOR ITS LIMITATION ARE DEALT WITH IN THIS REPORT. THE DEMARCATION OF NOISE ZONES IN DENMARK, SWEDEN, AND NORWAY, THE USE AND CONTROL OF SPACE, AND PERTINENT EXISTING LAWS ARE ALSO DISCUSSED. THE MOST SERIOUS NOISE EFFECTS CAUSED BY AIRPLANES ARE FOUND TO BE THE INTERRUPTION OF SLEEP AND REST AND THE POSSIBILITY OF MENTAL SUFFERING. IT IS POINTED OUT THAT AIRPLANE NOISE CAN BE LIMITED AT ITS SOURCE BY ASSURING THAT ENOUGH DISTANCE EXISTS BETWEEN THE SOURCE AND THE RECIPIENT AND THROUGH THE RECIPIENT, FOR INSTANCE, BY SOUNDPROOFING EXPOSED BUILDINGS. IT IS RECOMMENDED THAT NOISE REQUIREMENTS BE INTRODUCED IN CONNECTION WITH AIRPLANE REGISTRATION. A BAN TO TAKE OFF OR LAND DURING THE NIGHT OR LIMITING THE USE OF CERTAIN AIRSTRIPS WOULD ALSO HELP REDUCE NOISE. THE ESTABLISHMENT OF NOISE ZONES TO FACILITATE PLANNING IS DISCUSSED. A NUMBER OF RELATED MAPS AND CHARTS ARE APPENDED.

NOISE

GERMANY, FED REP OF
LR(B)

"NOISE PROTECTION FOR THE STREET CONSTRUCTOR?" SUEDDEUTSCHE ZEITUNG
URBAN, MARTIN EPA
GERMAN 03/10/76 PGS 4 ID# 03737A
ALSO PMB

A DRAFT ORDINANCE ESTABLISHING LIMITS FOR ROAD TRAFFIC NOISE, TO BE ISSUED IN IMPLEMENTATION OF THE FEDERAL IMMISSIONS LAW, WAS DISCUSSED AT A HEARING IN THE FEDERAL MINISTRY OF TRANSPORT, ACCORDING TO THIS ARTICLE. THE CURRENT VERSION OF THE ORDINANCE WOULD PERMIT A LONG-TERM DAYTIME NOISE LEVEL OF 60-75 DB(A) AND A NIGHT LEVEL OF 50-65 DB(A) MEASURED AT AN OPEN WINDOW ALONG NEW OR SIGNIFICANTLY ALTERED ROADWAYS. THE MAXIMUM NOISE LEVELS WOULD BE BASED ON A YEARLY AVERAGE. THE FIGURES ARE 10 DB(A) HIGHER IN THE DAY AND 15 DB(A) HIGHER AT NIGHT THAN PERMITTED MAXIMUM LEVELS FOR COMMERCIAL NOISE IN RESIDENTIAL AREAS. THE AUTHOR BELIEVES THE VALUES SHOULD BE SET AT A LOWER LEVEL.

GREAT BRITAIN
LR(A)

CODE OF PRACTICE FOR REDUCING THE EXPOSURE OF EMPLOYED PERSONS TO NOISE
GREAT BRITAIN. DEPARTMENT OF EMPLOYMENT EPA
ENGLISH 00/00/72 PGS 1-33 ID# 03694A

THIS CODE OF PRACTICE, ISSUED BY THE BRITISH DEPARTMENT OF EMPLOYMENT, APPLIES TO ALL PERSONS EMPLOYED IN INDUSTRY WHO ARE EXPOSED TO NOISE, SETTING FORTH RECOMMENDED LIMITS TO WORKER NOISE EXPOSURE. IT DOES NOT SPECIFY THE MEASURES WHICH SHOULD BE TAKEN IN NOISE CONTROL DESIGN OF MACHINERY OR IN CONTROLLING COMMUNITY NOISE OR DAMAGE CAUSED BY NOISE VIBRATIONS. IN ADDITION TO SPECIFYING EXPOSURE LIMITS AND METHODS OF MEASUREMENT TO DETERMINE WHETHER LIMITS ARE EXCEEDED, THE CODE ALSO DESCRIBES METHODS FOR MEASURING CONTINUOUS, FLUCTUATING, INTERMITTENT, AND IMPULSIVE NOISE LEVELS. THE CODE SEEKS PRIMARILY TO REDUCE NOISE EXPOSURE TO BELOW THE SPECIFIED LIMITS AND SECONDARILY, TO REDUCE NOISE LEVELS IN GENERAL, INDICATING THE APPROPRIATE MEASURES WHICH SHOULD BE TAKEN BY BOTH MANAGEMENT AND EMPLOYEES.

NETHERLANDS
LR(B)

"SERIOUS ANTI-NOISE MEASURES." NUISANCES ET ENVIRONNEMENT, NO. 50
EPA
FRENCH 05/00/76 PGS 21 ID# 03717A

A RECENT STUDY, INDICATING THAT OVER 50 PERCENT OF THE DUTCH POPULATION SUFFERED ON A REGULAR BASIS FROM NOISE RELATED DISCOMFORTS, WAS RESPONSIBLE FOR THE DUTCH GOVERNMENT'S PREPARATION OF A BILL WHOSE PRINCIPLE PROVISIONS CONCERN: 1) THE POSSIBILITY OF ESTABLISHING REGULATIONS FOR THE PRODUCTION AND SALE OF NOISY APPLIANCES (INCLUDING CARS AND MOTORBIKES); 2) THE INTRODUCTION OF MANDATORY AUTHORIZATIONS FOR NOISE PRODUCING FIRMS; 3) THE ESTABLISHMENT OF "NOISE ZONES" ALONG INDUSTRIAL PROPERTIES AND ROADS WITH MAXIMUM PERMISSIBLE LIMITS; 4) AN AMENDMENT OF THE HOUSING LAW WITH RESPECT TO THE ACOUSTICAL INSULATION OF BUILDINGS; 5) THE CREATION OF A SERVICE FOR "NOISE RELATED DAMAGES" TO MEASURE NOISE POLLUTION AND RECEIVE COMPLAINTS; AND 6) THE REAFFIRMATION OF THE POLLUTER PAYS PRINCIPLE.

NORWAY "CAR TRASH IN NORWAY." AFTENPOSTEN
ANDERSEN, HANS PETER EPA
LR(B) NORWEGIAN 03/30/76 PGS 24 ID# 03741A
*AIR

NORWAY "NOISE RESEARCH FOR 600,000 NORWEGIAN KRONER." AFTENPOSTEN
EPA
PM(B) NORWEGIAN 03/22/76 PGS 13 ID# 03734A

ABOUT 7 PERCENT OF THE 100,000 WORKERS EMPLOYED IN THE WORKSHOP INDUSTRY IN NORWAY ARE DAILY SUBJECTED TO SO MUCH NOISE THAT IRREPARABLE HEARING DAMAGE MAY OCCUR IF THIS SITUATION PERSISTS OVER AN EXTENDED PERIOD OF TIME, IT IS REPORTED IN THIS ARTICLE. THE ROYAL NORWEGIAN COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH EXPLAINS THAT 600,000 NORWEGIAN KRONER HAVE BEEN ALLOCATED TO STUDY THE PROBLEM. THREE PROJECTS ARE IN PROGRESS DEALING WITH NOISE IN INDUSTRIAL WORKSHOPS AS WELL AS WITH CONSTRUCTION NOISE, AND NOISE IN FOUNDRIES. THE INCREASED USE OF AUTOMATION AND ENERGY HAS CREATED MORE NOISE BUT SHOULD ALSO HAVE GIVEN THE WORKERS ADDED OPPORTUNITY TO LEAVE THE NOISY AREAS. THE EMPHASIS ON "TAILOR-MADE" PRODUCTS, HOWEVER, OFTEN FORCES WORKERS TO OPERATE VERY CLOSE TO THE SOURCE OF DISTURBANCE. INDUSTRIAL METHODS OF OPERATION WILL THEREFORE BE A PARTICULAR FOCUS OF THE RESEARCH.

SWEDEN "INVESTMENTS IN ENVIRONMENTAL PROTECTION IN THE PERIOD 1970-1980." CURRENT SWEDEN, NO. 63
EMMELIN, LARS EPA
SE( ) ENGLISH 04/00/76 PGS 1-4 ID# 03709A
ALSO PMB
*GENERAL SOLID WASTE WATER

SWITZERLAND ELEKTROSTAHLWERKE (ELECTRIC STEEL PLANTS: FIRST REPORT OF THE COMMISSION FOR CONSIDERATION OF ENVIRONMENTAL PROBLEMS IN METALLURGY INDUSTRIES)
EPA
PM(B) GERMAN 08/00/76 PGS 1-12 ID# 03714A
*AIR WATER

PESTICIDES

BELGIUM "CROWN DECREE ON THE STORAGE OF, TRADE IN, AND USE OF PESTICIDES AND PHYTOPHARMACEUTICAL PRODUCTS." BULLETIN USUEL DES LOIS ET ARRETES

EPA

LR(A) FRENCH 00/00/75 PGS 1108-1119 ID# 01365L

THIS CROWN DECREE REQUIRES THE APPROVAL BY THE MINISTER OF AGRICULTURE OF ALL PHYTOPHARMACEUTICAL PRODUCTS BEING TRADED, SOLD, STORED OR TRANSPORTED AND THE PRIOR AUTHORIZATION BY THE MINISTER OF HEALTH FOR THE TRADE, SALE, STORAGE AND ACQUISITION OF PESTICIDES NOT INTENDED FOR AGRICULTURAL USES. AUTHORIZATION AND APPROVAL FILING PROCEDURES ARE SET FORTH. PROVISIONS CONCERNING THE PACKAGING AND LABELING OF BOTH THESE TYPES OF PRODUCTS ARE INCLUDED, AS WELL AS MEASURES FOR SANITARY AND WORKER PROTECTION.

GERMANY,FED REP OF "LEAD IN FOOD LIES HEAVY IN THE STOMACH." SUPPLEMENT TO THE SUEDDEUTSCHE ZEITUNG
FOCKE, KATHARINA

EPA

LR(B) GERMAN 04/07/76 PGS 36 ID# 03736A
ALSO PMB
TOXIC SUBS

THIS ARTICLE, BY THE FEDERAL MINISTER OF YOUTH, FAMILY AND HEALTH, STATES THAT THE NEW FOODSTUFFS AND COMMODITIES LAW, WHICH ENTERED FORCE JANUARY 1, 1975, OFFERS NUMEROUS OPPORTUNITIES TO LIMIT RESIDUES OF PESTICIDES OR HARMFUL CHEMICALS IN FOODSTUFFS. THE LAW 1) ALLOWS THE GOVERNMENT TO SET MAXIMUM PRESCRIPTIONS FOR QUANTITIES OF PESTICIDE CONVERSION PRODUCTS IN FOOD AND 2) PROVIDES THAT FROM JANUARY 1, 1978, NO FOODSTUFFS MAY BE MARKETED IN THE FEDERAL REPUBLIC IF THEY CONTAIN PRODUCTS NOT PERMITTED BY GERMAN LAW. THE LATTER PROVISION IS IMPORTANT IN REGARD TO IMPORTED FOODSTUFFS. THE NEW LAW ALSO AFFORDS THE OPPORTUNITY TO LIMIT ENVIRONMENTAL CHEMICALS (SUCH AS LEAD, HYDROCARBONS, SULFUR DIOXIDE AND MERCURY) IN FOOD PRODUCTS. FEDERAL ORDINANCES MAY BE ISSUED LIMITING OR PROHIBITING THE MARKETING OF FOOD PRODUCTS EXPOSED TO AIR, WATER, OR SOIL POLLUTION. THUS FAR AN ORDINANCE LIMITING MERCURY IN FISH HAS BEEN PASSED PURSUANT TO THIS PROVISION (SEE ABSTRACT ID NO. 02806B).

SWEDEN "INCINERATION OF WASTE CONTAINING DDT AND LINDANE." IVL - SWEDISH WATER AND AIR POLLUTION RESEARCH LABORATORY
AHLING, BENGT

EPA

ST( ) SWEDISH 05/00/76 PGS 1-20 ID# 03742A
*AIR

PESTICIDES

WHO
HEALTH HAZARDS FROM NEW ENVIRONMENTAL POLLUTANTS
WORLD HEALTH ORGANIZATION EPA
PM(B) ENGLISH 00/00/76 PGS 1-96 ID# 03705A
ALSO SE
*TOXIC SUBS

RADIATION

EUROPEAN COMMUNITIES
"DECLASSIFIED NUCLEAR INSTALLATIONS -- RADIOACTIVE WASTES: EC EAGER FOR STRICT SECURITY MEASURES." JOURNAL DE GENEVE
COLLET, PIERRE EPA
PM(B) FRENCH 11/05/75 PGS 5 ID# 03751A

CONFRONTED WITH THE NUCLEAR ENERGY DEVELOPMENT OF MOST EC COUNTRIES, THE EUROPEAN COMMISSION HAS ESTABLISHED A COMPREHENSIVE PROGRAM FOR THE COMMUNITY WHICH INTEGRATES, COMPLETES AND INTENSIFIES THE PREVIOUS NUCLEAR PROGRAM OF PRIVATE ENTERPRISES OR MEMBER STATE GOVERNMENTS. IN ACCORDANCE WITH THE PROVISIONS OF THE EURATOM TREATY, THE COMMISSION IS RESPONSIBLE FOR THE FORMULATION OF RADIATION PROTECTION STANDARDS. THESE STANDARDS OF MAXIMUM ADMISSIBLE EMISSIONS ARE DEFINED AS A RESULT OF EC RESEARCH PROGRAMS AND ISSUED AS BINDING DIRECTIVES WHICH IN ADDITION DETERMINE CONTROL PROCEDURES. IMPLEMENTATION OF THESE STANDARDS INTO THE LEGISLATION OF THE MEMBER STATES IS ALSO OVERSEEN BY THE COMMISSION. FINALLY, WITHIN THE SCOPE OF ITS NUCLEAR PROGRAM, THE COMMISSION HAS CONCERNED ITSELF WITH THE FOLLOWING: THE ASSESSMENT OF THE DIFFERENT MEANS OF TREATING AND STOCKPILING WASTES; THE DECLASSIFICATION OF INSTALLATIONS WHICH HAVE CEASED OPERATIONS; AND THE TRANSPORTATION OF NUCLEAR SUBSTANCES.

GERMANY,FED REP OF
"IMPLEMENTATION OF THE ATOMIC ENERGY LAW; STATE SUPERVISION ACCORDING TO SECTION 19 REGARDING THE OPERATION OF ACCELERATORS IN THE MEDICAL AREA." GEMEINSAMES MINISTERIALBLATT, 5
GERMANY, FED REP OF. MINISTRY OF THE INTERIOR EPA
LR(A) GERMAN 02/22/74 PGS 80-85 ID# 00693L

THIS JANUARY 22, 1974 DECREE IS DIRECTED BY THE FEDERAL MINISTRY OF THE INTERIOR TO THOSE STATE (LAND) OFFICIALS RESPONSIBLE FOR IMPLEMENTATION OF THE ATOMIC ENERGY LAW. IT TRANSMITS TO THE OFFICIALS THE GUIDELINES FOR THE OPERATION OF ACCELERATOR FACILITIES WORKED OUT BY THE STATES' COMMITTEE FOR ATOMIC ENERGY IN DECEMBER 1972. IN CONJUNCTION WITH THE GUIDELINES, THE MINISTER ENJOINS THE RESPONSIBLE STATE AUTHORITIES TO PLACE ACCELERATOR FACILITIES UNDER IMMEDIATE SUPERVISION AND TO USE THE GUIDELINES AS THE BASIS FOR DIRECTIVES TO THE FACILITIES. DIRECTIVES ARE TO SPECIFY SAFETY MEASURES FOR THE FACILITIES UNTIL A NATIONAL ADMINISTRATIVE REGULATION IS ISSUED FOR THE PURPOSE. SECTIONS OF THE GUIDELINES DEAL WITH PERSONNEL PREREQUISITES, ORGANIZATIONAL MEASURES, EQUIPMENT AND CONSTRUCTION MEASURES, PROTECTION OF PATIENTS, PROTECTION OF PERSONNEL, HALTING OF OPERATIONS, AND TRANSITIONAL PROVISIONS. FIVE APPENDIXES DESCRIBE THE PROFESSIONAL AND RADIATION PROTECTION KNOWLEDGE OF PERSONNEL.

RADIATION

GERMANY, FED REP OF

LR(A)

"INSTRUCTIONS ON THE INFORMATION REQUIRED FOR EXAMINATICN DURING THE APPROVAL PROCEDURE FOR NUCLEAR POWER PLANTS UNDER ATOMIC ENERGY LAW." GEMEINSAMES MINISTERIALBLATT, 28
GERMANY, FED REP OF. MINISTRY OF THE INTERIOR EPA
GERMAN 09/05/75 PGS 602-611 ID# 03739A

TO FACILITATE AND UNIFY THE APPROVAL PROCEDURE FOR NUCLEAR POWER PLANTS UNDER ATOMIC ENERGY LAW, THE FEDERAL MINISTRY OF THE INTERIOR AND THE STATE (LAND) AUTHORITIES RESPONSIBLE FOR APPROVAL AND SUPERVISION ARE COMPILING LISTS OF THE INFORMATION NECESSARY FOR EXAMINING THE ASPECTS OF A FACILITY IMPORTANT FROM A SAFETY STANDPOINT. THE CURRENT INSTRUCTIONS LIST THE INFORMATION REQUIRED FOR EVALUATION OF NUCLEAR POWER PLANT LOCATION, SAFETY TANK, REACTOR PROTECTION SYSTEM AND REACTOR PRESSURE TANK. THE EXAMINING AUTHORITIES MAY REQUEST OTHER INFORMATION AS NECESSARY IN INDIVIDUAL CASES. THE FACTORS REQUESTED IN THE CURRENT LISTS APPLY TO THE CONSTRUCTION STAGE OF THE FACILITY. THE TYPES OF INFORMATION REQUIRED FOR EXAMINATION OF THE INTENDED LOCATION OF A FACILITY MAY SERVE AS AN EXAMPLE. THEY INCLUDE: A CARTOGRAPHIC DEPICTION OF THE LOCATION, GEOLOGICAL AND SEISMIC CONDITIONS OF THE AREA, HYDROLCGICAL CONDITIONS, METEOROLOGICAL CONDITIONS, EXISTING RADIOLOGICAL POLLUTION OF AIR AND WATER, AND USE OF SURROUNDING AREAS.

GERMANY, FED REP OF

PM(B)

"BONN CONCERNED ABOUT ATOMIC WASTES." SUEDDEUTSCHE ZEITUNG
BERGDOLL, UDO EPA
GERMAN 04/15/76 PGS 1, 2 ID# 03408B

THE FEDERAL INTERIOR MINISTRY, FEARING THAT THE ENERGY INDUSTRY WILL NOT TAKE ADEQUATE MEASURES IN TIME TO ASSURE THE SAFE REMOVAL OF RADIOACTIVE WASTES, HAS THREATENED TO REVIEW CAREFULLY THE PERMIT PROCEDURE FOR THE CONSTRUCTION AND OPERATION OF FUTURE NUCLEAR POWER PLANTS. IN PARTICULAR, RADIATION PROTECTION EXPERTS IN THE INTERIOR MINISTRY AND THE FEDERAL DIET BELIEVE THAT A PRECARIOUS SITUATION COULD DEVELOP IN THE 1980'S IF PREPARATIONS FOR AN "ATOMIC WASTE PARK" FOR THE FINAL STORAGE AND REPROCESSING OF ATOMIC WASTES ARE POSTPONED. ALTHOUGH THE FEDERAL GOVERNMENT PLANS TO BUILD THE FACILITIES FOR FINAL STORAGE OF ATOMIC WASTES, THE ENERGY INDUSTRY IS TO ERECT THE REPROCESSING PLANT. THE FEDERAL MINISTRY OF RESEARCH HAS ALSO EXPRESSED ITS CONCERN ABOUT THE FUTURE SAFETY OF RADIOACTIVE WASTES. AN ENERGY INDUSTRY SPOKESMAN, WHILE REJECTING THE GOVERNMENT'S WORRIES ABOUT SAFETY AS UNFOUNDED, HAS SAID THAT THE INDUSTRY HAS NOW SUCCEEDED IN DEFINING AND DIVIDING INDUSTRY TASKS FOR THE DISPOSAL PARK.

GREAT BRITAIN

LR(A)

CODE OF PRACTICE FOR THE STORAGE OF RADIOACTIVE MATERIALS IN TRANSIT
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
ENGLISH 00/00/75 PGS 1-21 ID# 03701A

THIS CODE OF PRACTICE, PROMULGATED JOINTLY BY THE BRITISH DEPARTMENTS OF ENVIRONMENT AND EMPLOYMENT, IS SPECIFICALLY INTENDED TO ASSIST THOSE PERSONS WHO MAY BE RESPONSIBLE FOR THE TEMPORARY STORAGE OR WAREHOUSING OF RADIOACTIVE MATERIALS WHICH ARE IN TRANSIT IN GREAT BRITAIN. THE CODE DOES NOT APPLY TO CONSIGNORS OR CONSIGNEES OF RADIOACTIVE MATERIALS SINCE THEY ARE GOVERNED BY OTHER CODES. INFORMATION ON THE TYPES OF PACKAGES IN TRANSIT IS PROVIDED FOR THE TEMPORARY STORER, AND THE SPECIFIC MEASURES AND REQUIREMENTS WITH WHICH HE MUST COMPLY ARE DELINEATED IN THE CODE. SUCH REQUIREMENTS INCLUDE REGISTRATION OF STORAGE PREMISES, PROPER SITING OF THE STORE, PROCEDURES FOR THE ACCEPTANCE OF SHIPMENTS INTO TEMPORARY STORAGE, PROPER PARKING OF VEHICLES CARRYING RADIOACTIVE MATERIALS, HANDLING OF RADIOACTIVE MATERIALS, SECURITY PRECAUTIONS, AND PROCEDURES IN CASE OF THEFT, ACCIDENT OR CONTAMINATION OF PREMISES.

RADIATION

GREAT BRITAIN

THE TOXICITY OF PLUTONIUM
GREAT BRITAIN. MEDICAL RESEARCH COUNCIL EPA
LR(B) ENGLISH 00/00/75 PGS 1-38 ID# 03760A

THIS PAPER PROVIDES A SUMMARY OF CURRENT BRITISH VIEWS ABOUT THE TOXICITY OF PLUTONIUM-239 AND CONSIDERS POSSIBLE CRITICISMS OF THE EXISTING DERIVED SAFETY STANDARDS FOR THIS RADIONUCLIDE. THE CONTENTS OF THE PAPER INCLUDE INFORMATION ON BASIC RADIOLOGICAL PROTECTION STANDARDS, RECOMMENDATIONS RELATING SPECIFICALLY TO PLUTONIUM, POSSIBLE FUTURE CHANGES IN RECOMMENDATIONS RELATING TO PLUTONIUM, THE ACCEPTABILITY OF THE BASIC RADIATION STANDARDS, AND, IN TABLES ONE AND TWO, THE MAXIMUM PERMISSIBLE DOSE STANDARDS RECOMMENDED BY THE INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION FOR WORKERS AND THE CANCER RISK FACTORS DUE TO EXPOSURE TO PLUTONIUM. THE BROAD CONCLUSION IS THAT DERIVED SAFETY STANDARDS, INCLUDING THAT FOR INHALED INSOLUBLE PARTICLES OF PLUTONIUM, FULFILL THE INTENTIONS OF THE INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION, ALTHOUGH ADJUSTMENT OF THE STANDARDS BY SMALL FACTORS MAY BE NEEDED. EVIDENCE FOR THIS CONCLUSION IS FURTHER DETAILED IN THE APPENDIX.

SOLID WASTE

FRANCE

"FRANCE GET A MOVE ON." ENVIRONMENTAL POLLUTION MANAGEMENT, VOL. 5, NO. 1
EPA
PM(B) ENGLISH 01/00/75 PGS 5 ID# 03748A

EACH FRENCH MINISTRY HAS BEEN GIVEN A MONTH IN WHICH TO PREPARE SPECIFIC MEASURES IN PURSUANCE OF THE ANTI-WASTE PROGRAM APPROVED BY THE FRENCH CABINET. THE CAMPAIGN, PROPOSED BY THE MINISTER FOR THE QUALITY OF LIFE, MR. JARROT, WAS PROVOKED BY THE ENERGY CRISIS AND RISING PRICES. ITS AIM IS TO DEVISE WAYS TO LENGTHEN THE LIFE OF MANY PRODUCTS AND TO RECYCLE USED MATERIALS AND WASTES. THE ONE MONTH PERIOD IN WHICH TO COME UP WITH CONCRETE MEASURES FOR IMPLEMENTATION IS NOT AS DRACONIAN AS IT APPEARS SINCE THE MINISTRIES HAVE ALREADY BEGUN WORK ON THEIR STRATEGY FOR THE SEVENTH NATIONAL DEVELOPMENT PLAN. THE ECONOMIC DEVELOPMENT OF FRANCE TAKES PLACE WITHIN THE FRAMEWORK OF NATIONAL DEVELOPMENT PLANS AND THE SIXTH PLAN, COVERING THE PERIOD 1971-75, CONTAINED AN ATTACK ON THE COUNTRY'S WATER POLLUTION PROBLEM. IT FOLLOWS THAT THE SEVENTH PLAN WOULD TAKE COGNIZANCE OF OTHER POLLUTION PROBLEMS.

GERMANY,FED REP OF

"GARBAGE UNDER A CARPET OF GREEN." SUEDDEUTSCHE ZEITUNG
SCHNEIDER, CHRISTIAN EPA
PM(B) GERMAN 05/00/71 PGS 17 ID# 03732A

THE FEDERAL GERMAN STATE OF BAVARIA HAS DRAFTED A PLAN WHEREBY THE 5022 DUMPS COUNTED IN 1972 WILL BE REDUCED TO 61 CENTRAL WASTE REMOVAL FACILITIES BY 1980 AND TO 44 CENTRAL FACILITIES BY 1990. SUCH CENTRAL FACILITIES WILL CONSIST OF LARGE DUMPS, COMPOSTING PLANTS AND INCINERATORS. IN THE MEANTIME, THE STATE OFFICE FOR ENVIRONMENTAL PROTECTION HAS ISSUED A PAMPHLET INSTRUCTING DUMP OWNERS, DISTRICT AUTHORITIES, DISTRICT-FREE CITIES AND COMMUNITIES HOW TO CLEAN UP AND RECULTIVATE FORMER DUMP SITES. IN THE LAST THREE YEARS, 1664 DUMPS HAVE BEEN CLOSED IN BAVARIA, BUT ONLY 682 HAVE BEEN RECULTIVATED TO DATE. THE PAMPHLET RECOMMENDS FILLING IN THE DUMPS WITH WASTES, EXCAVATION DIRT, AND CONSTRUCTION RUBBLE, COVERING THIS WITH A 50-CENTIMETER LAYER OF HUMUS AND REPLANTING. THE UPPER PALATINATE IS CITED AS AN EXAMPLE SINCE OVER 80 PERCENT OF ITS FORMER DUMPS HAVE BEEN RECULTIVATED.

SOLID WASTE

GREAT BRITAIN
PM(B)

WASTE DISPOSAL SURVEYS
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
ENGLISH 00/00/76 PGS 1-44 ID# 03692A
ALSO SE

THIS PAPER, PREPARED BY THE BRITISH DEPARTMENT OF THE ENVIRONMENT'S WORKING GROUP ON WASTE DISPOSAL LEGISLATION AS WASTE MANAGEMENT PAPER NO. 2, OFFERS WASTE DISPOSAL AUTHORITIES ADVICE ON HOW TO CARRY OUT WASTE DISPOSAL SURVEYS. THE PROCEDURES ADVOCATED IN THIS PAPER ARE BASED ON AN EARLIER VERSION OF THE DOCUMENT WHICH WAS FIELD TESTED BY THE WASTE DISPOSAL AUTHORITIES OF THE CHESHIRE COUNTRY COUNCIL. BACKGROUND INFORMATION ON THE FORMULATION OF THE SURVEY METHODS IS GIVEN, AND SPECIFIC CHAPTERS DISCUSS THE 12 CLASSES OF WASTE TO BE COVERED BY WASTE DISPOSAL SURVEYS AS WELL AS THE EXISTING AND POTENTIAL DISPOSAL FACILITIES. APPENDIX ONE GIVES SAMPLE SURVEY QUESTIONNAIRES AND GUIDANCE NOTES.

GREAT BRITAIN
PM(B)

THE RELATIONSHIP BETWEEN WASTE DISPOSAL AUTHORITIES AND PRIVATE INDUSTRY
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
ENGLISH 00/00/76 PGS 1-9 ID# 03697A
ALSO PMA AND SE

THIS DOCUMENT, PUBLISHED AS WASTE MANAGEMENT PAPER NO. 5 BY THE WORKING GROUP ON WASTE DISPOSAL LEGISLATION OF THE BRITISH DEPARTMENT OF THE ENVIRONMENT, OFFERS INFORMATION AND ADVICE ON THE RELATIONSHIP BETWEEN WASTE DISPOSAL AUTHORITIES AND PRIVATE INDUSTRY IN GREAT BRITAIN, ATTEMPTING TO SHOW THE IMPORTANCE OF A LARGE MEASURE OF COOPERATION BETWEEN PUBLIC AND PRIVATE SECTORS IN THIS AREA. SPECIFIC CHAPTERS SUMMARIZE THE PRESENT ARRANGEMENTS; NEW OPPORTUNITIES FOR COOPERATION; THE ESTABLISHMENT OF CONSULTATIVE PROCEDURES; AREAS OF COLLABORATION; THE STANDARDIZATION OF CONTRACTUAL ARRANGEMENTS; POLICIES OF WASTE DISPOSAL AUTHORITIES IN LEVYING FEES FOR DISPOSAL SERVICES; AND PROCEDURES FOR EMERGENCY SITUATIONS.

GREAT BRITAIN
PM(B)

POLYCHLORINATED BIPHENYL (PCB) WASTES
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
ENGLISH 00/00/76 PGS 1-19 ID# 03698A
*TOXIC SUBS WATER

SOLID WASTE

GREAT BRITAIN

THE WORKING PARTY ON COLLIERY WASTE TIPPING ON DURHAM BEACHES. INTERIM REPORT
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
PM(B) ENGLISH 10/00/75 PGS 1-6 ID# 03711A
WATER

FOLLOWING THE DECISION OF THE BRITISH MINISTER FOR PLANNING AND LOCAL GOVERNMENT TO END DESPOILAGE OF COASTAL AREAS BY WASTE DUMPING, A WORKING PARTY WAS ESTABLISHED TO CONSIDER WAYS OF ENDING WASTE DUMPING FROM COAL MINES ON BEACHES IN DURHAM, TO FIND AN ALTERNATE METHOD OF WASTE DISPOSAL, AND TO COORDINATE THE NECESSARY OPERATIONS FOR RECLAIMING THE DESPOILED AREA. CITING THE COOPERATIVE EFFORTS OF LOCAL AND NATIONAL AUTHORITIES ON THE MATTER, THIS INTERIM REPORT CONCLUDES THAT THE MOST FEASIBLE METHOD OF WASTE DISPOSAL FROM THIS AREA IS DUMPING AT SEA, ALTHOUGH SOME CONSIDERATION IN GIVEN TO LIMITED INLAND AND UNDERGROUND WASTE DISPOSAL. FINAL SOLUTIONS TO THE PROBLEM ARE CONTINGENT ON AN ACCEPTABLE MEANS OF TRANSPORTING WASTES TO SEA, EITHER BY BARGE OR PIPELINE. UNTIL THE PROBLEM OF TRANSPORTATION OF WASTE IS RESOLVED, A FULL SCALE PROGRAM TO END WASTE DUMPING AND RECLAIM DURHAM BEACHES AND CLIFF AREAS CANNOT BE INITIATED.

INDIA

"SOLID WASTES OF GREATER BOMBAY: METHOD OF DISPOSAL AND ITS CONTRIBUTION TO POLLUTION." SCAVENGER (SOCIETY FOR CLEAN ENVIRONMENT, BOMBAY), VOL. 6, NO. 2
ATTARWALLA, F.A. EPA
PM(B) ENGLISH 04/06/76 PGS 9-19 ID# 03744A

THIS ARTICLE DISCUSSES SOLID WASTE DISPOSAL PROBLEMS CONFRONTING THE MUNICIPAL CORPORATION OF BOMBAY AND PRESENT AND PROJECTED MEASURES FOR DEALING WITH THEM. LANDFILL HAS BEEN THE MOST COMMON MEANS OF REFUSE DISPOSAL IN THE GREATER BOMBAY AREA SINCE THE NINETEENTH CENTURY, BUT BECAUSE OF THE IMPRACTICALITY OF CONTINUED USE OF THIS METHOD AND THE HIGH TRANSPORTATION COSTS IT INVOLVES, THE MUNICIPAL CORPORATION IS PRESENTLY UNDERTAKING RESEARCH INTO INCINERATION AND COMPOSTING AS ALTERNATIVE DISPOSAL METHODS. MAJOR WEAKNESSES OF THE PRESENT SYSTEM INCLUDE: FRAGMENTATION OF DISPOSAL OPERATIONS; LACK OF FUNDS; DIFFICULTIES ARISING FROM HUTMENT DWELLERS, CATTLE AND LITTER; LACK OF MECHANICAL EQUIPMENT AND OF EXPERTISE FOR MAINTAINING EXISTING EQUIPMENT; AND LAXITY AMONG SANITARY WORKERS. PUBLIC EDUCATION, LONG RANGE PLANNING AND COOPERATION AMONG VARIOUS LEVELS OF GOVERNMENT ARE SEEN AS NECESSARY FOR IMPROVING THE SITUATION. APPENDIXES PRESENT ANALYSES OF RUBBISH COMPONENTS AND DATA ON EXISTING DUMPS.

SOLID WASTE

SWEDEN "INVESTMENTS IN ENVIRONMENTAL PROTECTION IN THE PERIOD 1970-1980." CURRENT
SWEDEN, NO. 63
EMMELIN, LARS EPA
SE( ) ENGLISH 04/00/76 PGS 1-4 ID# 03709A
ALSO PMB
*GENERAL WATER NOISE

SWEDEN "THE EFFECTS OF THE PACKAGING FEE." SOU 1974:44
EPA
SE( ) SWEDISH 00/00/74 PGS 1-123 ID# 03750A
ALSO PMB
*GENERAL

SWITZERLAND RICHTLINIEN UEBER...GEORDNETEN DEPONIEN: DEPONIERICHTLINIEN
(INSTRUCTIONS REGARDING...CONTROLLED DUMPS: DUMPING INSTRUCTIONS)
SWITZERLAND. FEDERAL OFFICE FOR ENVIRONMENTAL PRCTECTION EPA
LR(A) GERMAN 03/00/76 PGS 1-45 ID# 03691A

THESE INSTRUCTIONS REGARDING GENERAL REQUIREMENTS FOR LOCATION, ESTABLISHMENT, OPERATION AND MONITORING OF CONTROLLED DUMPS DEFINE CONTROLLED DUMPING AS: A) DEPOSITING MATERIAL IN LAYERS TO BE COVERED OVER WITH SUITABLE MATERIAL LATER AND B) TAKING INTO CONSIDERATION THE DEMANDS OF WATER, AIR, AND LANDSCAPE PROTECTION IN LOCATING, OPERATING AND CLOSING A FACILITY. DUMPS ARE CLASSED I TO IV, WITH DUMPS IN CLASS I RESERVED FOR MATERIALS THAT DO NOT HARM WATER THROUGH SEEPAGE AND CLASS IV FOR MORE HARMFUL WASTES. THESE INSTRUCTIONS ARE BASICALLY INTENDED FOR DUMPS CLASSED I-III. SECTIONS OF THE PUBLICATION DEAL IN DETAIL WITH: A) CHOICE OF LOCATION, B) PREPARATION AND OPERATION OF DUMPS, C) CLOSING OF DUMPS, AND D) MONITORING AND SUPERVISION. TWO APPENDIXES LIST: 1) MATERIALS WHICH MAY BE DEPOSITED IN EACH CLASS OF DUMP AND 2) MAJOR FEDERAL LAWS RELEVANT TO THE TOPIC. (THE FULL GERMAN TITLE IS: RICHTLINIEN UEBER ALLGEMEINE ANFORDERUNGEN AN STANDORT, ANLAGE, BETRIEB UND KONTROLLE VON GEORDNETEN DEPONIEN.)

SWITZERLAND "WASTE INCINERATION PLANTS: 14 MILLION IN SUBSIDIES." JOURNAL DE GENEVE
EPA
SE( ) FRENCH 03/24/76 PGS 9 ID# 03727A

FEDERAL SUBSIDIES AMOUNTING TO 13,920,119 FRANCS ARE BEING ACCORDED TO WASTE INCINERATION PLANTS IN SWITZERLAND BY THE SWISS DEPARTMENT OF THE INTERIOR. INSTALLATIONS SELECTED AS RECIPIENTS OF THESE SUBSIDIES INCLUDE: THE SOLEURE-BERN PLANT -- 2,338,000 FRANCS; THE MONTHEY PLANT -- 2,113,805 FRANCS; THE ZURICH-OBERLAND PLANT -- 1,939,399 FRANCS; THE SCHAFFHOUSE PLANT -- 1,780,415 FRANCS; AS WELL AS THE MUNICIPALITIES OF WINTERTHOUR -- 3,276,000 FRANCS; BERN -- 2,000,000 FRANCS; AND ZURICH -- 472,500 FRANCS.

GERMANY,FED REP OF "LEAD IN FOOD LIES HEAVY IN THE STOMACH." SUPPLEMENT TO THE SUEDDEUTSCHE ZEITUNG
FOCKE, KATHARINA EPA
LR(B) GERMAN 04/07/76 PGS 36 ID# 03736A
ALSO PMB
*PESTICIDES

GREAT BRITAIN CODE OF PRACTICE FOR THE PACKAGING OF DANGEROUS SUBSTANCES BY ROAD NO. 1: ORGANIC PEROXIDES
GREAT BRITAIN. HOME OFFICE EPA
LR(A) ENGLISH 00/00/74 PGS 1-16 ID# 03700A

THIS CODE, ISSUED BY THE BRITISH HOME OFFICE, IS SUPPLEMENTAL TO EXISTING LEGISLATION GOVERNING THE SHIPMENT BY ROAD OF ORGANIC PEROXIDES AND IS INTENDED TO ENSURE THAT THE PACKAGING IN WHICH ORGANIC PEROXIDES ARE CONVEYED IS SUITED TO THE NATURE OF THE PRODUCT AND IS SUFFICIENTLY STRONG TO MEET ALL THE NORMAL REQUIREMENTS OF SHIPMENT. THE CODE CONSISTS OF TWO PARTS: PART ONE LISTS AND DESCRIBES THE DIFFERENT PEROXIDE SUBSTANCES AND PART TWO DESCRIBES THE 16 DIFFERENT PACKAGING CATEGORIES APPLICABLE TO ONE OR MORE OF THE SUBSTANCES LISTED IN PART ONE. CONTAINERS ARE REQUIRED TO BE MADE OF FIBRE-BOARD, WOOD OR METAL, AND THE MAXIMUM CONTENTS OF INNER RECEPTACLES AND OUTER PACKAGES IS GIVEN. THE CODE ACCEPTS CONTAINERS COMPLYING WITH INTERNATIONAL AIR TRANSPORT ASSOCIATION REGULATIONS AS SUITABLE ALTERNATIVE FORMS OF PACKAGING, LISTS INSTANCES WHEN OTHER FORMS OF ALTERNATIVE PACKAGING ARE NECESSARY, AND POINTS OUT THOSE PEROXIDE SUBSTANCES WHICH ARE NOT GOVERNED BY THE PROVISIONS OF THIS CODE.

GREAT BRITAIN POLYCHLORINATED BIPHENYL (PCB) WASTES
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
PM(B) ENGLISH 00/00/76 PGS 1-19 ID# 03698A
SOLID WASTE WATER

THIS TECHNICAL MEMORANDUM, PUBLISHED AS WASTE MANAGEMENT PAPER NO. 6 BY THE WASTES DIVISION OF THE BRITISH DEPARTMENT OF THE ENVIRONMENT, DEALS WITH THE POSSIBLE SOURCES AND THE DISPOSAL OF POLYCHLORINATED BIPHENYL (PCB) WASTES ORIGINATING IN OR IMPORTED INTO THE UNITED KINGDOM. THE NATURE AND SOURCES OF PCB WASTES, THEIR TOXICITY, METHODS FOR HANDLING, STORAGE, TREATMENT AND FINAL DISPOSAL OF PCB WASTES, AND POSSIBILITIES FOR MINIMIZING PCB WASTES ARE DISCUSSED. A CODE OF PRACTICE FOR PCBS IS GIVEN, AND ANNEXES LIST TRADE NAMES OF PCBS, QUANTITIES OF PCBS, AND REFERENCES.

TOXIC SUBS

SWEDEN

"DISPOSAL OF CONTAMINATED SPOIL IN A STRATIFIED FJORD - AN EXAMPLE FROM THE SWEDISH WEST COAST." VATTEN, VOL. 31, NO. 2
THORSLUND, ANDERS E.
EPA
PM(B) ENGLISH 00/00/75 PGS 133-138 ID# 03696A
*WATER

WHO

HEALTH HAZARDS FROM NEW ENVIRONMENTAL POLLUTANTS
WORLD HEALTH ORGANIZATION
EPA
PM(B) ENGLISH 00/00/76 PGS 1-96 ID# 03705A
ALSO SE
PESTICIDES

BECAUSE OF THE INADEQUACIES IN FORECASTING THE ENVIRONMENTAL AND HUMAN HEALTH EFFECTS OF INDUSTRIAL CHEMICALS, THIS TECHNICAL REPORT, PREPARED BY A WHO STUDY GROUP, CONSIDERS THE DIFFERENT ASPECTS OF IDENTIFICATION, ANALYSIS AND EVALUATION OF THE POTENTIAL EFFECTS OF TECHNOLOGICAL DEVELOPMENTS, INCLUDING THOSE AREAS OF RAPID DEVELOPMENT SUCH AS POWER PRODUCTION AND USE, NEW DEVELOPMENTS IN CHEMICAL TECHNOLOGY AND NEW PEST CONTROL CHEMICALS. THE NEED FOR A BETTER UNDERSTANDING OF THE RELATION OF CHEMICAL STRUCTURE TO BIOLOGICAL ACTIVITY AND THE DEVELOPMENT OF RAPID LABORATORY BIOASSAY SYSTEMS IS DISCUSSED AS WELL AS THE IMPORTANCE OF INFORMATION AND WARNING SYSTEMS, SUCH AS TOXICOLOGICAL DATA BANKS, CHEMICAL REGISTERS, HEALTH STATISTICS AND EPIDEMIOLOGICAL STUDIES ON WORKERS. THE HAZARDS ASSOCIATED WITH EACH OF THE DISCUSSED POLLUTANTS ARE DEALT WITH IN SEVERAL ANNEXES TO THE REPORT.

WATER

BELGIUM

"APRIL 9, 1975 CROWN DECREE ON THE STATE'S INTERVENTION IN PRIVATE INDUSTRY'S INVESTMENTS FOR WASTEWATER TREATMENT." BULLETIN USUEL DES LOIS ET ARRETES
EPA
LR(A) FRENCH 00/00/75 PGS 524-27 ID# 00549L

THIS CROWN DECREE SETS FORTH THE TERMS AND AMOUNTS OF GOVERNMENT SUBSIDIES TO PRIVATE ENTERPRISES FOR WATER PURIFICATION INSTALLATIONS. THE DECREE STIPULATES THAT SUBSIDIES, WHICH MAY BE AWARDED ONLY FOR INSTALLATIONS IN OPERATION BY JANUARY 1, 1975, ARE APPLICABLE TO WASTEWATER TREATMENT FACILITIES AS WELL AS TO MODIFICATIONS OF PRODUCTION PROCESSES FOR POLLUTION ABATEMENT PURPOSES. APPLICATION PROCEDURES FOR THE SUBSIDY AND MANNER OF PAYMENT OF THE SUBSIDY ARE DESCRIBED IN THE DECREE. AWARDING OF SUBSIDY IS MADE CONTINGENT ON TOTAL AMOUNT OF INVESTMENT WITH 45 PERCENT OF THE TOTAL BEING OFFERED FOR WORK FINANCED DURING 1975-76; 30 PERCENT FOR 1977-78; AND 15 PERCENT FOR 1979-80. THIS DECREE ABROGATES A JANUARY 23, 1974 DECREE ON SUBSIDIES TO PRIVATE INDUSTRY.

BELGIUM "JULY 25, 1975 MINISTERIAL DECREE SETTING CONDITIONS FOR PROVISIONAL APPROVAL OF LABORATORIES PURSUANT TO THE JAN. 23, 1974 WASTEWATER DECREE." BULLETIN USUEL DES LOIS ET ARRETES
EPA
LR(A) FRENCH 00/00/75 PGS 1004-05 ID# 00549M

TO OBTAIN PROVISIONAL APPROVAL NECESSARY TO CONDUCT THE WATER SAMPLE ANALYSES DESCRIBED IN THE MARCH 26, 1971 LAW ON THE PROTECTION OF SURFACE WATERS FROM POLLUTION, LABORATORIES WILL BE REQUIRED TO CONDUCT A SAMPLE TYPE ANALYSIS SELECTED BY THE INSTITUTE OF HYGIENE AND EPIDEMIOLOGY OF THE MINISTRY OF PUBLIC HEALTH AND THE FAMILY. THE ANALYSIS IS TO CONSIST OF PHYSICAL, CHEMICAL, AND/OR BACTERIOLOGICAL TESTS FOR WHICH A MARGIN OF ERROR IS TO BE DESIGNATED BY THE INSTITUTE. THE APPLICATION IS ALSO TO INCLUDE A WRITTEN QUESTIONNAIRE DETAILED IN THE DECREE. APPROVAL, IF ISSUED, WILL BE VALID FOR UP TO THREE YEARS AND WILL SPECIFY AREAS OF COMPETENCE AND TYPES OF ANALYSES TO BE PERFORMED. LABORATORIES RECEIVING APPROVAL WILL BE REQUIRED TO MAINTAIN A REGISTER OF ANALYSES AND TO REPORT RESULTS TO THE INSTITUTE, AS WELL AS TO APPLY THE METHODOLOGY IT DESIGNATES.

BELGIUM "AUGUST 1, 1974 LAW CREATING REGIONAL INSTITUTIONS AS A PRELIMINARY STEP IN THE IMPLEMENTATION OF CONSTITUTIONAL ARTICLE 107 QUATER." BULLETIN USUEL DES LOIS ET ARRETES
EPA
LR(A) FRENCH 00/00/74 PGS 832-34 ID# 03735A
GENERAL

THE FLEMISH, WALLOON, AND BRUSSELS REGIONS, FOR WHICH PROVISIONAL TERRITORIAL LIMITS ARE DESIGNATED, ARE EACH PROVIDED WITH BOTH A REGIONAL COUNCIL AND A MINISTERIAL COMMITTEE FOR REGIONAL AFFAIRS IN THIS LAW. THE LAW DISCUSSES THE COMPOSITION, FUNCTIONING AND PURPOSE OF BOTH OF THESE INSTITUTIONS. THE COUNCILS ARE GIVEN THE RESPONSIBILITY OF FORMULATING POLICY FOR ALL JUSTIFIABLE REGIONAL CONCERNS SUCH AS: LAND USE, URBAN RENEWAL, PUBLIC HEALTH, WATER AND ENERGY. MINISTERIAL COMMITTEES FURTHER ELABORATE ON THESE POLICIES AND ALSO COORDINATE THE VARIOUS AREAS OF CONCERN. ADDITIONAL PROVISIONS OF THE LAW DEAL WITH THE FINANCING OF THESE REGIONAL UNDERTAKINGS.

DENMARK PLANTENAERINGSSTOFFER (PLANT FOODS). POLLUTION CONTROL BOARD PUBLICATION NO. 16
EPA
PM(B) DANISH 07/00/71 PGS 1-57 ID# 03724A
*GENERAL AIR

DENMARK

VANDRENSNING (WATER PURIFICATION). POLLUTION CONTROL BOARD PUBLICATION NO. 11
EPA
PM(B) DANISH 06/00/71 PGS 1-163 ID# 03753A

MECHANICAL, BIOLOGICAL, CHEMICAL, AND PHYSICAL METHODS OF WATER PURIFICATION, AS WELL AS SEDIMENTATION, ARE DISCUSSED IN THIS REPORT. VARIOUS PURIFICATION PLANTS ARE DESCRIBED AND THE COSTS OF PURIFICATION ARE FOUND TO BE HIGHLY VARIABLE. SEVERAL RECOMMENDATIONS ARE MADE: THE DEMANDS MADE ON EXISTING PURIFICATION PLANTS SHOULD BE STUDIED; THE AGRICULTURAL COMMISSION SHOULD REVIEW THE SITUATION WHEN THE DEMAND ON A PLANT REACHES 80 PERCENT OF ITS CAPACITY TO DETERMINE IF EXPANSION IS NEEDED; STRICTER CONTROL OF OUTLETS SHOULD BE IN EFFECT; METHODS, SOME AT THE MOMENT EXCLUSIVELY USED ABROAD, SHOULD BE STUDIED; BIOLOGICAL PLANTS COULD BE ESTABLISHED WITHOUT FURTHER RESEARCH, BUT SPACE SHOULD BE RESERVED FOR POSSIBLE FUTURE EXPANSION; SPECIAL METHODS AND FURTHER RESEARCH ON INDUSTRIAL WASTEWATER SHOULD BE PROMOTED; THE SLUDGE PROBLEM SHOULD BE EVALUATED, WITH RESEARCH IN THIS FIELD BEING GIVEN PRIORITY; AND THE QUALITY OF PURIFICATION PLANTS, ESPECIALLY SMALLER ONES, SHOULD BE STRICTLY CHECKED.

FINLAND

AMOUNTS OF SUBSTANCES DISCHARGED BY RIVERS OFF THE COAST OF FINLAND.
PUBLICATIONS OF THE WATER RESEARCH INSTITUTE, NO. 13
WARTIOVAARA, JYRKI
EPA
PM(B) FINNISH* 00/00/75 PGS 1-54 ID# 03702A
ALSO ST/*ENGLISH SUMMARY

THIS STUDY WAS CONDUCTED ON THE BASIS OF WATER QUALITY DATA, EXTRACTED FROM THE WATER QUALITY REGISTER AND THE RUNOFF REGISTER OF THE NATIONAL BOARD OF WATERS, COMBINED WITH HYDROLOGICAL OBSERVATIONS, PERFORMED AT 25 STATIONS, EACH REPRESENTING A RIVER BASIN. THREE METHODS, DESCRIBED IN DETAIL, WERE USED TO CALCULATE THE ANNUAL DISCHARGE VALUES, WHICH PROVED TO BE VERY SIMILAR. THE MEAN ANNUAL DISCHARGE OF TOTAL NITROGEN WAS ABOUT 200 KG PER SQ KM; TOTAL PHOSPHORUS WAS 15 KG PER SQ KM; ORGANIC CARBON, SUSPENDED SOLIDS AND DISSOLVED ELECTROLYTES WERE 3.4, 3.2, AND 13 T PER SQ KM, RESPECTIVELY. THESE ESTIMATES COMPARE FAVORABLY WITH RESULTS OF STUDIES FROM OTHER BALTIC COUNTRIES. THE ROLE OF HUMAN ACTIVITIES IN THE MATERIAL BALANCE OF THE BALTIC IS NOT REVEALED, BUT SINCE NO SIGNIFICANT CHANGES HAVE TAKEN PLACE DURING THE LAST TEN YEARS IN THE AMOUNTS OF CHEMICAL SUBSTANCES BEING DISCHARGED BY FINNISH RIVERS, THE REPORT SUGGESTS THAT THEY HAVE BEEN INSIGNIFICANT UP TO THIS POINT.

FINLAND "FLOURIDATION BAD FOR WATERCOURSES." HUFVUDSTADSBLADET

EPA

PM(B) SWEDISH 03/24/76 PGS 17 ID# 03726A
ALSO ST

THE FINNISH BOARD OF WATERS MAINTAINS THAT TAP WATER SHOULD NOT BE FLUORIDATED BECAUSE IT MAY HAVE A DAMAGING EFFECT ON THE ENVIRONMENT. IT IS REPORTED IN THIS ARTICLE. ACCORDING TO TESTS, THE DEVELOPMENT OF ROE AND THE METAMORPHOSIS OF TADPOLES ARE HAMPERED AND FLUORINE COMPOUNDS HAVE A TENDENCY TO GATHER IN ORGANISMS AND WATER VEGETATION. THE BOARD SUGGESTS, AS AN ALTERNATIVE, THE FLUORIDATION OF MILK, WHICH WOULD REQUIRE A MUCH SMALLER AMOUNT OF THE SUBSTANCE. THE FINNISH BOARD OF HEALTH, ON THE OTHER HAND, POINTS TO THE FACT THAT FLUORIDATION HAS GIVEN GOOD RESULTS BOTH IN THE U.S. AND THE SOVIET UNION, BUT THE BOARD OF WATERS COUNTERS THAT NO SCANDINAVIAN COUNTRY HAS FOUND FIT TO USE THE METHOD. ACCORDING TO A FIVE-YEAR PUBLIC HEALTH PLAN APPROVED BY THE CABINET, ALL MUNICIPALITIES SHOULD SECURE A SUFFICIENT SUPPLY OF FLUORINE TO PROTECT THEIR CITIZENS AGAINST DENTAL CARIES BEFORE 1978.

FINLAND RESEARCH AT THE NATIONAL BOARD OF WATERS IN FINLAND

EPA

PM(B) ENGLISH 00/00/75 PGS 1-14 ID# 03743A

THIS PAMPHLET PROVIDES A CHART OF THE WATER ADMINISTRATION IN FINLAND AND LISTS THE COUNTRY'S 13 WATER DISTRICT OFFICES. IT ALSO CONTAINS INFORMATION ON HYDROLOGICAL RESEARCH, RESEARCH ON THE STATE AND QUALITY OF FINNISH WATERS, AND TECHNICAL RESEARCH CONDUCTED BY THE NATIONAL BOARD OF WATERS.

FINLAND HYDROLOGICAL BIBLIOGRAPHY 1960-1970. PUBLICATIONS OF THE WATER RESEARCH INSTITUTE 14

EPA

ST( ) ENGLISH 00/00/76 PGS 1-182 ID# 03708A
ALSO PMB

THIS BOOKLET CONTAINS A BIBLIOGRAPHY OF HYDROLOGICAL LITERATURE PUBLISHED IN FINLAND BETWEEN 1960-1970. PREPARED IN ACCORDANCE WITH RECOMMENDATIONS FROM THE INTERNATIONAL ASSOCIATION OF HYDROLOGICAL SCIENCES OF THE INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS, IT REPRESENTS A CONTINUATION OF AN EARLIER HYDROLOGICAL BIBLIOGRAPHY COVERING 1934-1959 EXPANDED TO INCLUDE THE APPLICATIONS OF WATER POLLUTION CONTROL AND WATER MANAGEMENT. APART FROM A LIST OF PERIODICALS, THE PUBLICATION ALSO INCLUDES THE FOLLOWING SUBDIVISIONS: HYDROMETEOROLOGY; WATERCOURSES; LAKES; BOGS; SUBTERRANEAN WATERS AND SPRINGS; BALANCE OF HYDROLOGCAL CYCLE; AND GENERAL WORKS IN RELATED SCIENCES, HYDROLOGICAL ABSTRACTS, DICTIONARIES, CONGRESS REPORTS, ETC. EACH ENTRY IS ACCOMPANIED BY A SHORT ABSTRACT.

WATER

FRANCE "350 MILLION FRANC PROGRAM FOR INPROVEMENT OF WATER QUALITY IN SEINE ESTUARY." NUISANCES ET ENVIRONNEMENT, NO. 50

EPA

PM(B) FRENCH 05/00/76 PGS 11 ID# 03710A

ASSEMBLED IN HONFLEUR (CALVADOS), THE MEMBERS OF THE FRENCH COMMISSION ON THE LOWER SEINE RIVER (COMBINING REPRESENTATIVES FROM THE SEINE-NORMANDY BASIN COMMITTEE, THE LOCAL PREFECTURES AND CONCERNED GOVERNMENT AGENCIES, AS WELL AS THE DIRECTORS OF THE PORTS OF ROUEN AND LE HAVRE) EXAMINED A PROGRAM FOR THE IMPROVEMENT OF WATER QUALITY IN THE SEINE ESTUARY CALLING FOR A TOTAL OF 350 MILLION FRANCS IN INVESTMENTS. 198 MILLION OF THIS AMOUNT WOULD BE EARMARKED FOR INDUSTRY, WITH THE REMAINING 152 MILLION AVAILABLE FOR LOCAL GOVERNMENTS. THE PROGRAM PROPOSES TO REDUCE POLLUTING DISCHARGES ON THE POSES-TANCARVILLE SECTION OF THE RIVER BY 60 TO 70 PERCENT WITHIN A FOUR YEAR PERIOD. THIS GOAL WOULD BE ACHIEVED EITHER BY THE INSTALLATION OF NEW INDUSTRIAL OR MUNICIPAL WASTEWATER TREATMENT FACILITIES, OR BY AN INCREASE IN THE CAPACITY OF EXISTING FACILITIES.

FRANCE "TWENTY-FIVE SOLDIERS AGAINST BLACK TIDE." LE FIGARO

LE BOLZER, GUY

EPA

SE( ) FRENCH 03/25/76 PGS 1, 7 ID# 03747A

THE GROUNDING OF THE "OLYMPIC BRAVERY" IN AUGUST 1975 AND THE SUBSEQUENT OIL SPILL ARE DISCUSSED IN TERMS OF THE EFFORTS WHICH HAVE BEEN EXERTED TO COUNTERACT THE SPREADING BLACK TIDE. CLEAN UP EFFORTS ARE DESCRIBED AS INCLUDING: SKIN DIVING OPERATIONS AIMED AT LOCALIZING THE FOUR MAJOR LEAKS; SHORE OPERATIONS IN WHICH 25 SOLDIERS ARMED WITH SHOVELS ARE COMBATING THE POLLUTION; AND OPERATIONS AT SEA SEEKING TO CONTROL THE SPILL WITH THE USE OF DETERGENTS. ALTHOUGH DAMAGES HAVE BEEN LISTED AS MINOR BY THE OFFICIAL RESPONSIBLE FOR THE CLEAN UP, A CIVIL ACTION HAS NEVERTHELESS BEEN BROUGHT BEFORE THE BREST TRIBUNAL FOR THE PUBLIC AUTHORITIES' FAILURE TO UNDERTAKE PROMPT RESPONSIVE MEASURES. THE INHABITANTS OF THE AFFECTED OUESSANT ISLAND ARE REFUSING, MOREOVER, TO PARTICIPATE IN SHORE CLEAN UP OPERATIONS WHICH THEY CONSIDER FUTILE AFTER THE LONG TIME LAPSE.

GERMAN DEM REP "COMMON PLANS IN WATER MANAGEMENT AGREED ON." NEUES DEUTSCHLAND

EPA

PM(B) GERMAN 05/14/76 PGS 2 ID# 03761A

A PROTOCOL FOR SCIENTIFIC-TECHNICAL COOPERATION FOR THE PERIOD 1976-1980 HAS BEEN SIGNED IN MOSCOW BETWEEN THE GERMAN DEMOCRATIC REPUBLIC (GDR) AND THE SOVIET UNION. THE PROTOCOL, SIGNED AFTER NEGOTIATIONS BETWEEN THE MINISTER FOR ENVIRONMENTAL PROTECTION AND WATER MANAGEMENT OF THE GDR AND THE CHAIRMAN OF THE STATE COMMITTEE FOR CONSTRUCTION ENGINEERING IN THE SOVIET UNION, PROVIDES IN PARTICULAR FOR COOPERATION IN THE DEVELOPMENT, PROJECTION AND TESTING OF EFFECTIVE METHODS AND FACILITIES FOR THE PURIFICATION OF SEWAGE; THE EXCHANGE AND TESTING OF DEVICES FOR MONITORING AND REGULATING SEWAGE QUALITY; AND THE EXCHANGE OF INFORMATION ON NEW DEVELOPMENTS IN SEWAGE PURIFICATION. DISCUSSIONS WITH OTHER OFFICIALS INVOLVED THE RATIONAL USE OF WATER, PROTECTION OF NATURE, AND THE PROMOTION OF SCIENTIFIC AND TECHNICAL PROGRESS IN THESE AREAS.

GERMANY,FED REP OF "INSTRUCTIONS FOR EXPERTS FOR TANK FACILITIES AND TANK PROTECTION.
INSTRUCTIONS FOR EXPERTS FOR TANKS OF HEATING OIL USERS." GEMFINSAMES MINISTERIALBLATT, 29
GERMANY, FED REP OF MINISTRY OF THE INTERIOR EPA
LR(A) GERMAN 11/08/74 PGS 525-529 ID# 03733A

THIS BULLETIN OF THE FEDERAL MINISTRY OF THE INTERIOR DATED OCTOBER 22, 1974 DELINEATES THE PROFESSIONAL REQUIREMENTS FOR EXPERTS FOR TANK FACILITIES. FOR BOTH TYPES OF EXPERTS SPECIFIED IN THE HEADING, THE INSTRUCTIONS LIST THE DUTIES AS WELL AS THE EDUCATION, EXPERIENCE, SPECIALIZED KNOWLEDGE AND MEANS OF PROVING SPECIALIZED KNOWLEDGE REQUIRED OF THE CANDIDATE. IN PARTICULAR, THE EXPERTS ARE TO BE DEGREED OR EXPERIENCED ENGINEERS; BE ACQUAINTED WITH NECESSARY TESTING PROCEDURES, EQUIPMENT AND DEVICES; AND BE FAMILIAR WITH PERTINENT, LISTED LEGAL PRESCPIPTIONS AND TECHNICAL RULES. THE INSTRUCTIONS WERE DEVELOPED BY THE WORKING GROUP ON "TRAINING/CONTINUING EDUCATION" OF THE SPECIAL COMMITTEE ON STORAGE AND TRANSPORT OF WATER-ENDANGERING SUBSTANCES IN THE MINISTRY OF THE INTERIOR. THE INCREASING USE OF WATER-ENDANGERING SUBSTANCES, STORED IN TANKS, MAKES THE APPOINTMENT OF QUALIFIED EXPERTS TO EVALUATE FACILITIES AND OFFER OPINIONS AFTER MISHAPS PARTICULARLY NECESSARY.

GERMANY,FED REP OF "WATER USE AND WASTEWATER DISPOSAL IN THE TEXTILE INDUSTRY." ENVIRONMENT
CANADA TRANSLATION ODENV TR-984
DITTRICH, VIKTOR EPA
PM(B) ENGLISH 00/00/76 PGS 1-28 ID# 03722A
ALSO SE

THIS PUBLICATION DISCUSSES WASTEWATER TREATMENT IN TEXTILE PLANTS PROCESSING THEIR OWN WASTEWATERS AND IN THOSE DISCHARGING WASTEWATERS INTO PUBLIC SEWERAGE SYSTEMS. AN INITIAL SECTION DISCUSSES THE LEGAL REQUIREMENTS FOR THE DISCHARGE OF WASTEWATER. FURTHER SECTIONS DEAL WITH: A) THE CHEMICAL TREATMENT OF WASTEWATER, B) THE BIOLOGICAL TREATMENT OF WASTEWATER, C) COSTS OF WASTEWATER TREATMENT, AND D) IN-PLANT MEASURES FOR SAVING WATER AND REDUCING THE POLLUTION OF WASTEWATER. TABLES, DISGRAMS AND A BIBLIOGRAPHY ARE INCLUDED. (THE GERMAN ORIGINAL OF THE ARTICLE MAY BE FOUND IN INDUSTRIEABWAESSER, 1970, PP. 58-65.)

GERMANY,FED REP OF UNWELTPROBLEME DES RHEINS (ENVIRONMENTAL PROBLEMS OF THE RHINE)
GERMANY,FED REP OF. COUNCIL OF EXPERTS ON THE ENVIRONMENT EPA
PM(B) GERMAN 03/00/76 PGS 1-258 ID# 03740A

THIS IS THE THIRD OF THE OPINIONS PREPARED BY THE COUNCIL OF EXPERTS ON THE ENVIRONMENT IN THE FEDERAL REPUBLIC OF GERMANY AND THE FIRST TO DEAL WITH THE SPECIAL ENVIRONMENTAL PROBLEMS OF A REGION. SECTIONS OF THE REPORT PRESENT: 1) A FRAMEWORK DESCRIPTION OF THE AREA, INCLUDING MAJOR CHARACTERISTICS AND USES; 2) ENVIRONMENTAL POSSIBILITIES AND DANGERS FOR THE AREA, INCLUDING INFORMATION ABOUT WATER QUALITY AND ECOLOGY OF THE RHINE, RHINE-AREA GROUNDWATER, AND PROBLEMS OF THE LANDSCAPE, AIR AND NOISE; AND 3) GOALS AND STRATEGIES OF VARIOUS JURISDICTIONS ASSOCIATED WITH THE RHINE, SUCH AS PROBLEMS OF PLANNING AND IMPLEMENTING PURIFICATION MEASURES AND FEDERAL GERMAN AND INTERNATIONAL EFFORTS IN THE AREA. THE FINAL SECTION, ENTITLED "CONCLUDING POLITICAL CONSIDERATIONS," CONTAINS THE COUNCIL'S DISCUSSION AND RECOMMENDATIONS. AMONG OTHER MATTERS CONSIDERED ARE THE WASTEWATER FEE, PROBLEMS OF ORGANIZATION AND INFORMATION, THE FEDERAL GOVERNMENT'S LEGISLATIVE COMPETENCE, AND COSTS. NINE SPECIALIZED MAPS ARE APPENDED.

GERMANY,FED REP OF "ASSURANCE OF FUTURE WATER SUPPLY IN REGARD TO QUANTITY AND QUALITY."
WASSERWIRTSCHAFT, NO. 66
KNOP, ERICH EPA
PM(B) GERMAN 01/00/76 PGS 58-63 ID# 03762A

INCREASING POPULATION AND INDUSTRIALIZATION HAVE MADE DRINKING WATER SUPPLY AND SEWAGE REMOVAL MAJOR AREAS OF WATER MANAGEMENT CONCERN. THIS ARTICLE EXAMINES THESE PROBLEMS USING THE MIDDLE EUROPEAN/RHINE CATCHMENT AREA AS AN EXAMPLE. WATER DEMAND IN THE FEDERAL REPUBLIC OF GERMANY MAY INCREASE ABOUT 45 PERCENT IN THE YEARS 1975-2000. WATER WILL BE REQUIRED FOR INDUSTRIAL, PUBLIC AND AGRICULTURAL PURPOSES. SOME USES CAUSE RAPID DEPLETION OF WATER. HOWEVER QUALITY CHANGES ARE PARTICULARLY IMPORTANT IN REGARD TO THE USE OF SURFACE WATER FOR DRINKING NEEDS. THE ARTICLE SUGGESTS CERTAIN LEGAL AND ADMINISTRATIVE MEASURES TO REDUCE FUTURE POLLUTION OF THE RHINE AND DISCUSSES THE NECESSITY OF EQUIPPING DRINKING WATER PREPARATION PLANTS TO HANDLE ANY POLLUTANTS THAT PERSIST TO THAT POINT. IT SUGGESTS GOVERNMENT AID FOR WATER PURIFICATION IN HEAVILY AFFECTED INDUSTRIES UNTIL WATER PROTECTION PROVISIONS ARE COMPARABLE IN ALL COUNTRIES ALONG THE RHINE. IT CITES SUCCESSFUL WATER MANAGEMENT EFFORTS IN THE RUHR AND OTHER GERMAN RIVERS.

GERMANY,FED REP OF "OBSERVATIONS ON THE BIOLOGICAL TREATMENT OF NITRATE-CONTAINING INDUSTRIAL WASTEWATER...IN AN ACTIVATED SLUDGE PLANT." ENVIRONMENT CANADA TRANSLATION OOENV TR-993
HALTRICH, W., AND B. JAEGER EPA
ST( ) ENGLISH 00/00/76 PGS 1-4 ID# 03720A
ALSO PMB

NITRATE-RICH WASTEWATERS CAUSE DISORDERS IN THE PURIFICATION PROCESS ("NITROGEN FLOTATION"). TESTS WERE THEREFORE CONDUCTED ON THE BIOLOGICAL PURIFICATION OF AN INDUSTRIAL WASTEWATER WITH A HETEROGENEOUS ORGANIC COMPOSITION. A DENITRIFICATION STEP WAS INSERTED BEFORE AERATION DURING WHICH NITRATE NITROGEN WAS ELIMINATED. BOD5 WAS ALSO SUBSTANTIALLY REDUCED DURING THE DENITRIFICATION STEP. IN ADDITION, A SIGNIFICANTLY LOWER AMOUNT OF EXCESS SLUDGE WAS PRODUCED IN THE DENITRIFYING ACTIVATED SLUDGE PLANT THAN IN A CONVENTIONALLY ACTIVATED SLUDGE PLANT. FURTHER TESTS ARE PLANNED TO EVALUATE ECONOMIC ADVANTAGES THAT MIGHT BE REALIZED AND APPLIED TO INDUSTRIAL PLANTS USING THIS PROCESS. (THE ORIGINAL GERMAN TEXT OF THIS ARTICLE, FULLY TITLED "OBSERVATIONS ON THE BIOLOGICAL TREATMENT OF NITRATE-CONTAINING INDUSTRIAL WASTEWATER BY THE DENITRIFICATION PROCESS IN AN ACTIVATED SLUDGE PLANT," MAY BE FOUND IN DAS GAS UND WASSERFACH, VOL 104, NO. 12, 1963, P. 347.)

GERMANY,FED REP OF "THE INFLUENCE OF NITROGEN SUPPLY ON THE BIOLOGICAL TREATMENT OF INDUSTRIAL WASTEWATERS WITH A LOW NITROGEN CONTENT." ENVIRONMENT CANADA TRANSLATION OOENV TR-992
HALTRICH, W., AND B. JAEGER EPA
ST( ) ENGLISH 00/00/76 PGS 1-14 ID# 03721A
ALSO PMB

THIS REPORT DISCUSSED INVESTIGATIONS INTO THE NITROGEN REQUIREMENTS FOR THE PURIFICATION OF INDUSTRIAL WASTEWATERS USING THE ACTIVATED-SLUDGE METHOD. THE STUDY SHOWED THAT TO OBTAIN OPTIMAL PURIFICATION OF AN EFFLUENT, A MINIMAL NITROGEN SUPPLY, BASED ON THE WASTEWATER IN QUESTION, SHOULD BE FURNISHED. BELOW THIS "CRITICAL NITROGEN SUPPLY" LEVEL, THE PURIFICATION EFFECTIVENESS IS REDUCED AND THE SENSITIVITY OF THE ACTIVATED SLUDGE SYSTEM TO SHORT-TERM LOAD INCREASES IS RAISED. ONLY PARTIAL PURIFICATION TAKES PLACE UNDER EXTREME NITROGEN DEFICIENCY. THE EXPERIMENTS WERE CARRIED OUT ON WASTEWATERS FROM CHEMICAL PLANTS, BUT THE RESULTS REVEALED THE IMPORTANCE OF AN ADEQUATE NITROGEN SUPPLY IN ALL BIOLOGICAL PUBLICATION PROCESSES. (THE GERMAN LANGUAGE ORIGINAL OF THIS REPORT MAY BE FOUND IN ZEITSCHRIFT FUER WASSER UND ABWASSER FORSCHUNG, VOL. 3, 1970, PP. 169-175.)

GERMANY,FED REP OF "NITRIFICATION AND DENITRIFICATION IN SEWAGE PURIFICATION." ENVIRONMENT CANADA TRANSLATION OOENV TR-1005
RUEFFER, H. EPA
ST( ) ENGLISH 00/00/76 PGS 1-24 ID# 03729A

THIS PAPER DISCUSSES NITRIFICATION AND DENITRIFICATION IN THE SEWAGE PURIFICATION PROCESS. METHODS DISCUSSED INCLUDE SLUDGE ACTIVATING PLANTS WITH DENITRIFICATION, RAPID DENITRIFICATION AND THE SEMI-AEROBIC ACTIVATING PROCEDURE. THE "COMPLETE PURIFICATION PLANT," DEVELOPED BY THE INSTITUTE FOR COMMUNITY WATER MANAGEMENT OF THE TECHNICAL UNIVERSITY IN HANNOVER FOR USE BY SMALL COMMUNITIES, IS DISCUSSED AS IT RELATES TO NITRIFICATION AND DENITRIFICATION EXPERIMENTS CARRIED OUT THERE. (THE ORIGINAL OF THIS GERMAN-LANGUAGE PAPER MAY BE FOUND IN VOM WASSER, VOL 31, 1964, PP. 134-152.)

GREAT BRITAIN POLYCHLORINATED BIPHENYL (PCB) WASTES
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
PM(B) ENGLISH 00/00/76 PGS 1-19 ID# 03698A
*TOXIC SUBS SOLID WASTE

WATER

GREAT BRITAIN

THE WORKING PARTY ON COLLIERY WASTE TIPPING ON DURHAM BEACHES. INTERIM REPORT
GREAT BRITAIN. DEPARTMENT OF THE ENVIRONMENT EPA
PM(B) ENGLISH 10/00/75 PGS 1-6 ID# 03711A
*SOLID WASTE

GUATEMALA

GUATEMALA: NATIONAL ENERGY MASTER PLAN: ENVIRONMENTAL ASSESSMENT
GOODLAND, R., AND G. TILLMAN EPA
PM(B) ENGLISH 12/00/75 PGS 1-124 ID# 03763A
ALSO SE
*GENERAL LAND USE AIR

HONG KONG

WATER POLLUTION CONTROL IN HONG KONG: WHAT CAN BE DONE?
GORDON, MALCOLM S. EPA
PM(B) ENGLISH 00/00/00 PGS 1-18 ID# 03707A
ALSO SE

WITH REGARD TO THE REDUCTION OF MARINE POLLUTION FROM SEWAGE AND FARM WASTE AROUND HONG KONG, THIS PAMPHLET CONSIDERS WAYS TO REUSE LIQUID EFFLUENTS FROM THE MODERN TWO-STAGE SEWAGE WASTE TREATMENT PLANTS TO BE BUILT IN HONG KONG. ECONOMICALLY VIABLE METHODS FOR THE CONSTANT RECYCLING OF WASTES, MODELED AFTER THE BIOLOGICAL CYCLES OF CHINESE DUCK AND POND FISH CULTURE, ARE SUGGESTED AND INCLUDE: BRACKISH WATER IRRIGATION OF VEGETABLE FIELD CROPS, HYDROPONIC CULTIVATION OF HIGH VALUE PLANT CROPS SUCH AS FLOWERS, AND MASS CULTIVATION OF ALGAE AS A FOOD CHAIN BASE. THE PRESENT SITUATION AND IMMEDIATE POTENTIAL REGARDING SEWAGE TREATMENT AND RECYCLING SCHEMES IN SHATIN AND TOLO HARBOUR ARE SUMMARIZED, AND ALTERNATIVES TO THE PROPOSED SCHEMES ARE CITED.

ISRAEL

THE LEGAL FRAMEWORK FOR THE PREVENTION AND CONTROL OF WATER POLLUTION IN ISRAEL
LASTER, RICHARD EPA
LR(B) ENGLISH 00/00/76 PGS 1-386 ID# 03764A

THIS PAPER, PUBLISHED BY THE ENVIRONMENTAL PROTECTION SERVICE OF THE MINISTRY OF THE INTERIOR, WAS ORIGINALLY PREPARED AS A DISSERTATION FOR THE DOCTOR OF LAWS DEGREE AT THE HEBREW UNIVERSITY. IT CONSISTS OF FOUR CHAPTERS, THE FIRST OF WHICH, "THE ISRAEL WATER CODE: AN OVERVIEW," INCLUDES DISCUSSION OF THE 1959 WATER LAW AND THE ADMINISTRATIVE AND JUDICIAL FRAMEWORK FOR WATER POLLUTION CONTROL. CHAPTER 2, "THE ISRAEL WATER CODE: CLOSE-UP," DISCUSSES THE USES AND LEGAL FRAMEWORK FOR POLLUTION CONTROL IN A) GROUNDWATER AND B) SURFACE WATER (ISRAEL'S WESTERN FLOWING STREAMS). CHAPTER 3, "THE LAW AND LAKE KINNERET," APPLIES THE KNOWLEDGE OF CHAPTERS 1 AND 2 TO A CASE STUDY. CHAPTER 4 DRAWS CONCLUSIONS. THE APPENDIXES INCLUDE A LIST OF WATER QUALITY LAWS, WITH ITS OWN TABLE OF CONTENTS, IN WHICH PERTINENT SECTIONS OF THE LAWS ARE QUOTED.

ITALY "THIRTY-FIVE OFFENSE CITATIONS TO INDUSTRIAL MANAGERS."
CORRIERE DELLA SERA

					EPA
LR(B)	ITALIAN	03/02/76	PGS 9	ID#	03712A

CITATIONS HAVE BEEN SENT OUT BY AN ITALIAN JUDGE TO 30 INDUSTRIALISTS IN GENOA WHO ARE ALLEGED TO HAVE VIOLATED THE ITALIAN LAW ON THE DISCHARGE OF POLLUTANTS. ACCORDING TO THE GENOA JUDGE, THE BASIC PROVISIONS OF THE LAW WERE DISREGARDED BY THE INDUSTRIALISTS, WHO ARE ACCUSED OF DISCHARGING UNTREATED EFFLUENTS DIRECTLY INTO THE SEWER SYSTEM. INVESTIGATIONS CONDUCTED BY THE AUTHORITIES HAVE AFFIRMED THAT TOXIC EFFLUENTS FROM VARIOUS INDUSTRIAL PROCESSES ARE PRESENT IN THE SEWAGE OF THE GENOA PROVINCE.

NETHERLANDS "JUNE 5, 1975 LAW CONTAINING REGULATIONS RELATING TO THE OCCURRENCE OF POLLUTION OF THE SEA (LAW ON SEA POLLUTION)." STAATSBLAD, NO. 352 (1975)

					EPA
LR(A)	DUTCH	00/00/75	PGS 1-2	ID#	03699A

THIS LAW, WHICH GIVES EFFECT IN THE NETHERLANDS TO THE PROVISIONS OF THE FEBRUARY 15, 1972 CONVENTION FOR THE PREVENTION OF MARINE POLLUTION BY DUMPING FROM SHIPS AND AIRCRAFT (ID #03473A), APPLIES TO DUMPING FROM AIRPLANES AND SHIPS AS WELL AS FROM OFFSHORE INSTALLATIONS AND HOVERCRAFT. IT PROHIBITS THE DUMPING OF WASTES AND POLLUTING OR HARMFUL SUBSTANCES, BOTH THOSE DESIGNATED IN ADMINISTRATIVE REGULATIONS AND THOSE NOT SO DESIGNATED, AND THE TRANSFERRAL OR ACCEPTANCE OF SUCH WASTES FOR DUMPING. EXEMPTIONS TO THIS GENERAL PROHIBITION MAY BE ISSUED BY THE MINISTER OF TRAFFIC, WATER CONTROL AND PUBLIC WORKS WITH THE AGREEMENT OF THE MINISTER OF HEALTH AND THE ENVIRONMENT. THE MINISTER OF TRANSPORT, WATER CONTROL AND PUBLIC WORKS IS TO DESIGNATE THE OFFICIALS RESPONSIBLE FOR IMPLEMENTING THE LAW; THE FUNCTIONS OF THESE OFFICIALS ARE OUTLINED IN THE LAW.

NETHERLANDS "JULY 9, 1975 DECREE INDICATING THE SUBSTANCES REFERRED TO IN ARTICLE 3, PARAGRAPH 1, OF THE LAW ON SEA POLLUTION." STAATSBLAD, NO. 419 (1975)

					EPA
LR(A)	DUTCH	00/00/75	PGS 1-4	ID#	03699B

THIS DECREE, ISSUED BY THE MINISTER OF TRAFFIC, WATER CONTROL AND PUBLIC WORKS, LISTS THOSE SUBSTANCES WHICH UNDER ARTICLE THREE OF THE JUNE 5, 1975 LAW ON SEA POLLUTION MAY NOT BE DUMPED INTO THE SEA FROM SHIPS, AIRCRAFT OR OFFSHORE INSTALLATIONS. THEY ARE: ORGANIC HALOGEN AND SILICON COMPOUNDS AND THOSE COMPOUNDS WHICH MAY FORM THESE COMPOUNDS IN SEAWATER; MERCURY AND MERCURY COMPOUNDS; CALCIUM; CADMIUM AND CADMIUM COMPOUNDS; RECOGNIZED CARCINOGENS; AND SYNTHETIC MATERIALS CAPABLE OF FLOATING ON OR REMAINING SUSPENDED IN SEAWATER. THE PROHIBITION AGAINST THESE SUBSTANCES IS ABSOLUTE; EXEMPTIONS ARE NOT PROVIDED FOR. AN EXPLANATORY NOTE GIVES BACKGROUND INFORMATION ON THE DECREE AND EXPLAINS ITS PROVISIONS.

WATER

NORWAY

"NEW FUNCTION FOR THE COUNCIL ON OIL POLLUTION." AFTENPOSTEN

PM(B) NORWEGIAN 03/25/76 PGS 4 EPA ID# 03756A

IN COMPLIANCE WITH THE LAW AGAINST DAMAGE DUE TO OIL, THE COUNCIL ON OIL POLLUTION PRESENTLY HAS THE RESPONSIBILITY FOR PLANNING AND COORDINATION OF EFFORTS TO STOP POSSIBLE OIL DAMAGE IN NORWAY. THE GOVERNMENT WANTS, ACCORDING TO A STORTING (PARLIAMENT) REPORT, TO KEEP THE COUNCIL, BUT ONLY IN AN ADVISORY CAPACITY. AT THE TIME THE COUNCIL WAS ESTABLISHED NORWAY HAD NO EXPERIENCE OR EXPERTISE IN OIL POLLUTION. NOW THAT THE MINISTRY OF ENVIRONMENT AND THE STATE POLLUTION CONTROL AUTHORITY HAVE BEEN ESTABLISHED, THESE BODIES ARE TO CARRY THE MAIN RESPONSIBILITY. SINCE THE COMBATING OF OIL POLLUTION REQUIRES A STRONG CENTRALIZED COMMAND, IT IS CONSIDERED NEITHER PRACTICAL NOR EFFICIENT TO HAVE THE MAIN RESPONSIBILITY RESTING UPON A COUNCIL WHOSE 20 MEMBERS LIVE IN DIFFERENT PARTS OF THE COUNTRY.

SCANDINAVIA

BEHANDLING OG JORDBRUKSANVENDELSE AV KOMMUNALT KLOAKKSLAM (TREATMENT AND USE IN AGRICULTURE OF MUNICIPAL SEWAGE SLUDGE). NORDFORSK: SECRETARIAT OF ENV. SCIENCES PUBL. 1975:3

PM(B) SWEDISH* 00/00/75 PGS 1-70 EPA ID# 03746A
ALSO ST/*ALSO DANISH

THIS REPORT WAS SUBMITTED BY A WORKING GROUP FOR SLUDGE PROBLEMS, ESTABLISHED BY THE WATER COMMITTEE AT NORDFORSK (SCANDINAVIAN COUNCIL FOR APPLIED RESEARCH), CHARGED WITH THE TASK OF COORDINATING THE PARTICIPATION OF THE NORDIC COUNTRIES IN THE EC INITIATED PROJECT "SEWAGE SLUDGE PROCESSING", TO PROMOTE TECHNOLOGICAL COOPERATION. THE FOLLOWING SUBJECTS ARE DISCUSSED: GENERAL VIEWS ON THE SLUDGE PROBLEM IN MUNICIPALITIES, EMPHASIZING THE FACT THAT SOIL POLLUTION, RESOURCE VALUE, AND ECONOMICS ARE IMPORTANT CRITERIA IN DETERMINING THE METHODS OF TREATING AND DISPOSING OF SLUDGE; SEWAGE SLUDGE, JUDGED BY ITS ABILITY TO IMPROVE THE SOIL, AS A FERTILIZER AND AS A SOIL SUBSTITUTE; AND TECHNICAL SOLUTIONS TO SLUDGE TREATMENT, WHICH CONSIDERS THE EFFECT OF RISING ENERGY PRICES ON THERMAL SLUDGE TREATMENT AND SLUDGE DRYING, THE NEGLECT OF THICKENING FACTOR, THE WIDE USE OF SLUDGE COMBUSTION, THE RARE USE OF THERMAL CONDITIONING, AND THE INCREASING INTEREST IN COMPOSTING.

SCANDINAVIA

EUTROFIERING (EUTROPHICATION). NORDFORSK: SECRETARIAT OF ENVIRONMENTAL SCIENCES PUBLICATION 1975:1

PM(B) SWEDISH* 00/00/75 PGS 1-577 EPA ID# 03757A
/*ALSO NORWEGIAN AND DANISH

THIS BOOKLET CONTAINS PAPERS ON EUTROPHICATION SUBMITTED AT THE 10TH NORDIC SYMPOSIUM ON WATER RESEARCH, WHICH WAS ARRANGED BY THE SECRETARIAT OF ENVIRONMENTAL SCIENCES IN COOPERATION WITH THE WATER PROTECTION COMMITTEE AT NORDFORSK (SCANDINAVIAN COUNCIL FOR APPLIED RESEARCH) ON MAY 20-22, 1974 IN VAERLOSE, DENMARK. THE REPORTS PRESENT A GENERAL OVERVIEW OF EUTROPHICATION PROBLEMS AND SURVEYS THE SITUATIONS IN NORWAY, DENMARK, FINLAND, AND SWEDEN. OTHER PAPERS DEAL WITH THE FOLLOWING MAIN TOPICS: SOURCES OF NUTRIENT SALTS; DETAILED PROCESSES IN THE RECIPIENTS; EUTROPHICATION MODELS; AND ALTERNATE POSSIBILITIES OF INTERVENING AGAINST EUTROPHICATION.

WATER

SCANDINAVIA

"INTERCALIBRATICN OF PERMANGANATE METHODS FOR DETERMINATION OF ORGANIC SUBSTANCES." NORDFORSK: MILJOVARDSSEKRETARIATET PUBLIKATION 1971:2

EPA

ST( ) SWEDISH 00/00/71 PGS 1-39 ID# 03725A

ALSO PMB

THE SCANDINAVIAN COUNCIL FOR APPLIED RESEARCH (NORDFORSK) ESTABLISHED A WORKING GROUP FOR WATER ANALYSIS IN 1968 WITH THE PURPOSE OF PROMOTING JOINT, RAPID, AND CAREFUL ANALYTIC METHODS, OF ESTABLISHING UNIFORM RULES FOR TESTING, CONSERVATION, AND TRANSPORTATION OF WATER SAMPLES, AND OF STANDARDIZING ANALYTIC RESULTS WITHIN THE NORDIC COUNTRIES. THIS BOOKLET DESCRIBES EFFORTS TO INTERCALIBRATE VARIOUS PERMANGANATE METHODS FOR DETERMINING ORGANIC POLLUTION. WATER SAMPLES WERE SENT OUT TO SEVEN SELECTED DANISH, FINNISH, NORWEGIAN, AND SWEDISH LABORATORIES. THE SAMPLES WERE TESTED ACCORDING TO EACH LABORATORY'S OWN PERMANGANATE METHOD USING ACID AS WELL AS ALKALINE SOLUTIONS, AND ALSO ACCORDING TO THE METHOD SCAN-W 1:66 AND AN ALKALINE MODIFICATION THEREOF. THE RESULTS OF THESE ANALYSES HAVE BEEN EVALUATED STATISTICALLY AND ARE INCLUDED AND ILLUSTRATED BY SEVERAL TABLES AND CHARTS. THE SCAN-W 1:66 METHOD, WHICH IS EXPLAINED IN THE REPORT, WAS FOUND TO BE SUPERIOR TO THE OTHERS.

SWEDEN

"DISPOSAL OF CONTAMINATED SPOIL IN A STRATIFIED FJORD - AN EXAMPLE FROM THE SWEDISH WEST COAST." VATTEN, VOL. 31, NO. 2

THORSLUND, ANDERS E.

EPA

PM(B) ENGLISH 00/00/75 PGS 133-138 ID# 03696A

TOXIC SUBS

DREDGING AND DISPOSAL OF SPOIL CONTAINING ORGANIC MATTER, PCB, MERCURY, AND OTHER HEAVY METALS NECESSITATE SPECIAL MEASURES IN ORDER TO MINIMIZE HARMFUL EFFECTS TO MARINE LIFE AND RECREATIONAL INTERESTS. IN BYFJORDEN ON THE SWEDISH WEST COAST, SPOIL HEAVILY POLLUTED WITH MERCURY AND PCB WAS DUMPED AT THE DEEPEST PART OF A STRATEFIED FJORD WITH ANOXIC BOTTOM WATER. THE POLLUTED MATERIAL WAS COVERED WITH LARGE VOLUMES OF UNPOLLUTED SPOILS. INVESTIGATIONS DURING AND AFTER THE OPERATION ARE DESCRIBED. NO LASTING HARMFUL EFFECT OR CONSEQUENCE TO THE ECOSYSTEM WAS FOUND. THIS KIND OF OPERATION SHOULD, HOWEVER, NOT BE ADOPTED ELSEWHERE UNLESS THE SAME FAVORABLE HYDROGRAPHIC CONDITIONS EXIST. THE IMPORTANCE OF COOPERATION BETWEEN THE WATER PROTECTION ADMINISTRATION, MARINE SCIENCE EXPERTS, AND FISHERY AUTHORITIES IS POINTED OUT.

WATER

SWEDEN "INVESTMENTS IN ENVIRONMENTAL PROTECTION IN THE PERIOD 1970-1980." CURRENT
SWEDEN, NO. 63
EMMELIN, LARS EPA
SE( ) ENGLISH 04/00/76 PGS 1-4 ID# 03709A
ALSO PMB
*GENERAL SOLID WASTE NOISE

SWEDEN "RECIRCULATION OF WASTEWATER FROM THE TEXTILE INDUSTRY IS POSSIBLE, WHEN A COMBINED PRECIPITATION AND ION EXCHANGE TREATMENT IS USED." VATTEN, VOL. 30, NO. 4
JORGENSEN, SV. E. EPA
ST( ) ENGLISH 00/00/74 PGS 364-369 ID# 03695A
ALSO SE

BY A PROCESS CONSISTING OF TWO STEPS, A PRECIPITATION AND AN ION EXCHANGE, IT HAS BEEN POSSIBLE TO REGENERATE TEXTILE DYEING WASTEWATER FOR A PRICE APPROXIMATELY THE SAME AS THE COST OF TAP WATER. THIS MEANS THAT THE WASTEWATER TREATMENT IS PAID THROUGH THE NORMAL WATER CONSUMPTION EXPENSES, ACCORDING TO THIS STUDY. THE ANALYSIS SHOWS THAT THE TREATMENT PROCESS CAN BE FURTHER IMPROVED IF THE WATER IS RECIRCULATED.

SWEDEN "RECIRCULATION OF TEXTILE WASTEWATER: MICRO-SCREENING OF PROCESS WATER FROM A ROTARY PRINTING MACHINE." IVL - SWEDISH WATER AND AIR POLLUTION RESEARCH LABORATORY
LUNDBERG, BJORN EPA
ST( ) SWEDISH 04/00/76 PGS 1-13 ID# 03752A
ALSO PMB

STUDIES OF MICRO SCREENING OF WASTEWATER FROM A ROTARY PRINTING MACHINE SHOW THAT THE PREDOMINANT PART OF THE SUSPENDED SOLIDS CAN BE REMOVED BY SCREENING. THE REST OF THE PARTICLES ARE VERY SMALL, THUS REQUIRING A DIFFERENT TYPE OF TREATMENT PROCESS IN ORDER TO KEEP THE WATER ENTIRELY FREE FROM PARTICLES. THE EXPERIMENTS DO NOT, HOWEVER, OFFER ANY ANSWERS TO THE QUESTION OF WHETHER IT IS POSSIBLE TO RECIRCULATE THE WATER WITHOUT DETERIORATING THE QUALITY OF THE PRODUCT. THIS CAN ONLY BE CLARIFIED BY RETURNING TREATED WATER TO THE PROCESS AND JUDGING THE ACHIEVED RESULT. THE CAPACITY OF THE SIEVE AND THE RECOVERY ARE DETERMINED BY THE CHOICE OF SIEVE CLOTH.

SWITZERLAND ELEKTROSTAHLWERKE (ELECTRIC STEEL PLANTS: FIRST REPORT OF THE COMMISSION FOR CONSIDERATION OF ENVIRONMENTAL PROBLEMS IN METALLURGY INDUSTRIES)

EPA

PM(B) GERMAN 08/00/76 PGS 1-12 ID# 03714A

*AIR NOISE

USSR "MONITORING THE CHEMICAL COMPOSITION OF WATER (OPERATIONS TO BE PERFORMED AT A POST)." ENVIRONMENT CANADA TRANSLATION OENV TR-1003

EPA

LR(A) ENGLISH 00/00/76 PGS 1-24 ID# 03728A

THESE INSTRUCTIONS FOR HYDROMETEOROLOGICAL STATIONS AND POSTS, ISSUED BY THE CHIEF ADMINISTRATION OF THE HYDROMETEOROLOGICAL SERVICE UNDER THE COUNCIL OF MINISTERS OF THE USSR, CONCERN REQUIREMENTS FOR THE MONITORING OF WATER CHEMICAL COMPOSITION. THE OPERATIONS TO BE PERFORMED AT A POST ARE ENUMERATED. THEY CONSIST OF THE FOLLOWING: 1) THE DETERMINATION OF THE WATER TEMPERATURE OF THE STRATUM FOR WHICH THE TEST SAMPLE IS TO BE TAKEN; 2) THE TAKING OF A TEST SAMPLE FROM THE ASSIGNED STRATUM BY MEANS OF A BUCKET OR WATER SAMPLER; 3) THE DETERMINATION OF HYDROGEN IONS AND CARBON DIOXIDE CONTENT IN THE TEST SAMPLE, AS WELL AS THE LEVEL OF DISSOLVED OXYGEN; 4) THE BOTTLING, SEALING AND FORWARDING OF THE WATER UNDER CONSIDERATION TO A LABORATORY FOR FULL CHEMICAL ANALYSIS. THE PROCEDURE TO BE ADOPTED FOR EACH OF THESE OPERATIONS IS FURTHER DESCRIBED IN DETAIL. (THE ORIGINAL RUSSIAN TEXT OF THESE INSTRUCTIONS APPEARS IN THE MANUAL FOR HYDROMETEOROLOGICAL STATIONS AND POSTS, LENINGRAD, 1975, PP. 76-91.)

USSR "SURVEY OF WATER TEMPERATURE." ENVIRONMENT CANADA TRANSLATION OOENV TR-979

EPA

LR(A) ENGLISH 00/00/75 PGS 1-10 ID# 03730A

THESE INSTRUCTIONS FROM THE MANUAL OF HYDROMETRIC SURVEYS CONCERN WATER TEMPERATURE MONITORING. DESCRIBED IN DETAIL ARE PROCEDURES FOR WATER TEMPERATURE MEASUREMENT AND WATER TEMPERATURE DATA PROCESSING. INCLUDED WITHIN MEASUREMENT OPERATIONS ARE THE DETERMINATION OF LOCATION FOR MONITORING, THE FREQUENCY AND DURATION OF MEASUREMENT, AS WELL AS INSTRUMENTATION TO BE EMPLOYED. WATER TEMPERATURE DATA PROCESSING IS DESCRIBED AS CONSISTING OF INTRODUCING CORRECTIONS FOR INSTRUMENT ERRORS AND CALCULATING AVERAGES FOR A DAY, TEN DAYS, AND A MONTH. EXAMPLES OF ENTRIES ARE PROVIDED. A FINAL SECTION DEALS WITH THE HANDLING OF DATA ON PRECIPITATION FOR STATIONS WHERE PRECIPITATION IS MONITORED. (THE RUSSIAN ORIGINAL APPEARS IN THE MANUAL OF HYDROMETRIC SURVEYS, A PUBLICATION OF THE CHIEF ADMINISTRATION OF THE HYDROMETEOROLOGICAL SERVICE UNDER THE COUNCIL OF MINISTERS OF THE USSR, LENINGRAD, 1975, PP 52-58).

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