

1. Record Nr.	UNINA9910779133903321
Titolo	Analysis of cancer risks in populations near nuclear facilities [[electronic resource]] : phase I // Committee on the Analysis of Cancer Risks in Populations near Nuclear Facilities--Phase I, Nuclear and Radiation Studies Board, Division of Earth and Life Studies, National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2012
ISBN	1-280-88010-4 9786613721419 0-309-25572-4
Descrizione fisica	1 online resource (424 p.)
Disciplina	614.5999
Soggetti	Cancer - Risk factors Epidemiology Nuclear facilities - Health aspects - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographic references.
Nota di contenuto	""Front Matter""; ""Acknowledgments""; ""Contents""; ""Summary""; ""1 Introduction""; ""2 Effluent Releases from Nuclear Power Plants and Fuel-Cycle Facilities""; ""3 Radiation Dose Assessment""; ""4 Epidemiological Studies""; ""5 Risk Communication and Public Engagement""; ""Appendixes""; ""Appendix A: Radiation as a Carcinogen""; ""Appendix B: Biographical Sketches of Committee and Staff""; ""Appendix C: Presentations and Visits""; ""Appendix D: Origin of Radioactivity in Nuclear Plants""; ""Appendix E: Origin of Radioactivity in Fuel-Cycle Facilities"" ""Appendix F: Regulation of Effluent Releases""""Appendix G: Radiological Effluent Technical Specifications (RETS)""; ""Appendix H: Radiological Environmental Monitoring Program (REMP)""; ""Appendix I: Radiation Dose Assessment""; ""Appendix J: Modeling Incidence and Mortality Data in an Ecologic Study""; ""Appendix K: Letter Template to State Cancer Registries""; ""Appendix L: Letter Template to State Vital Statistics Offices""; ""Appendix M: Letter Template to Departments of

Sommario/riassunto

"In the late 1980s, the National Cancer Institute initiated an investigation of cancer risks in populations near 52 commercial nuclear power plants and 10 Department of Energy nuclear facilities (including research and nuclear weapons production facilities and one reprocessing plant) in the United States. The results of the NCI investigation were used a primary resource for communicating with the public about the cancer risks near the nuclear facilities. However, this study is now over 20 years old. The U.S. Nuclear Regulatory Commission requested that the National Academy of Sciences provide an updated assessment of cancer risks in populations near USNRC-licensed nuclear facilities that utilize or process uranium for the production of electricity. Analysis of Cancer Risks in Populations near Nuclear Facilities: Phase 1 focuses on identifying scientifically sound approaches for carrying out an assessment of cancer risks associated with living near a nuclear facility, judgments about the strengths and weaknesses of various statistical power, ability to assess potential confounding factors, possible biases, and required effort. The results from this Phase 1 study will be used to inform the design of cancer risk assessment, which will be carried out in Phase 2. This report is beneficial for the general public, communities near nuclear facilities, stakeholders, healthcare providers, policy makers, state and local officials, community leaders, and the media"--Publisher's description.