This document refers to a box of technical reports in the Computer History Museum's collection, described under catalog number 102748571.
The following technical reports in this box have accompanying descriptions:

Effectiveness of air filtration systems in DEC disk drives
"Particle count measurements made on RK05, RP04, and RS04 disk drives are discussed, and a specification for the filtering system of these disk drives and their operating environments is proposed. [see also DEC-TR 048]"

Air particle analysis at various DEC locations
"This report presents particle count data at various DEC locations in order to get an indication of the range of environments that our disk drives could possibly find themselves. [see also DEC-TR 047]"

Report of system evaluation with the RH11/RS04
"An evaluation of the RJS04 (RH11/RS04) as a system element was carried out using diagnostics DEC-X11 and RSTS/E, with the objectives being a measurement of performance and generation of configuration rules."

Thickness evaluation of gold plated contact fingers on printed circuit boards
"The gold plating thickness on printed circuit board contact fingers has been analyzed by three independent analytical sources, and confirmed that DEC betascope readings underestimate the true gold thickness."

Some guidelines for calculating and using mean-time-between-failures MTBF
"This memo and its attachments will provide designers and others, concerned with the potential reliability of our equipment, with 'Rule of Thumb' guidelines to aid in the calculating of MBTF new designs."

Wave soldered vs. tin plated wire wrap evaluation
"Purpose of this memo is to answer or explain the concerns about wire wrap in general and more specifically, wire wrap over wave soldered terminals."

RP04 and RP06 CE packs
"This is the result of a thorough comparison by the Memorex Corporation of the packs written for DEC by Dysan."

Report on the computerized design of package cushioning
"The main objective here is to inform the prospective users of the availability of this packaging design tool. The report describes the program adapted for the PDP-10 from an Air Force computer listing."

Designing for fatigue: a procedure
“The purpose of this report is to provide procedures for fatigue design and for predicting fatigue life.”

Comparison of several microprocessor systems
“Several system configurations were assembled to compare the LSI-11 with other microprocessors on a "bare bones" basis.”

Fast Fourier processing using sequential storage
“This thesis proposes a hardware scheme to implement the two-dimensional fast Fourier transform using recent storage technologies, such as charge-coupled device (CCP) memories.”

Architecture alternatives to midrange computer systems
“This purpose of this report is to provide insight into the mid-range architecture question. Criteria for evaluation of alternative architectures are discussed.”

Conceptual basis for improved software methodology
“This paper explains some key ideas that can be the basis for improved software development tools and techniques.”

Performance prediction in an operating system design methodology
“This thesis explores a method of designing complex software systems in such a way that the performance of the designed system can be predicted at any stage of the design process.”

Annie Oakley concept
“The "Annie Oakley" system was conceived to fill in the low end LSI-11 coverage. It is aimed at three broad market areas: OEM's, education, and the ‘computer hacker’, and will provide a clear and simple path for user system growth.”

Business interviews for desktop computer system
“This document is a compendium of outlines of all the interviews with business directors conducted for the application part of the desk-top computer system project, further described in DEC-TR 067.”

Desktop computing a look at the market
“The R&D Group at DEC has been pursuing a desktop computer project in response to the perceived market need. NOTE: copy 1 is an internal version; copy 2 is an external version; there are informational differences.”