



Value Engineering in the DoD



- **Value Engineering** - *An organized effort directed at analyzing the functions of systems, equipment, facilities, services, and supplies for the purpose of achieving the essential functions at the lowest life-cycle cost consistent with required performance, reliability, quality, and safety.*

OMB Circular A-131

- **Application Areas:**

- Improve/streamline operations
- Improve quality
- Increase the use of environmentally-sound and energy-efficient practices and materials
- Simplify logistics
- Reduce maintenance
- Increase availability
- Improve durability
- Design/Redesign to eliminate cost drivers

**VE Application at Enterprise-wide/Program Level Achieves
Cost Savings during Acquisition/Operations/Sustainment**

Dod Value Engineering

**ASSISTANT SECRETARY OF DEFENSE
(MANPOWER INSTALLATIONS AND
LOGISTICS) WASHINGTON DC.**

Dod Value Engineering:

The Role of Value Engineering in Support of Defense Management Objectives, 1968 *Value Engineering Guide for DoD Contractors* United States. Defense Supply Agency, 1976 **Use of Value Engineering in Defense Acquisitions**
Katherine V. Schinasi, 2003 Value engineering VE is a recognized technique for reducing costs while maintaining or improving productivity and quality The Department of Defense s DOD VE program consists of both government and contractor developed cost reduction projects designed to reduce a system s life cycle costs In response to Congress request we agreed to provide information on 1 the role the VE program has played in supporting cost reduction in DOD weapons system programs and 2 the alternative measures program managers take to reduce costs and or incentivize contractors In summary we found that the VE program has made a minimal contribution to cost reduction in DOD Value engineering is only one of a number of approaches used by the services to control costs and its use varied significantly from project to project In part its limited use is attributable to new cost reduction initiatives introduced by the department since the 1990s and in part due to the cumbersome processes required to implement the program Perhaps more importantly VE projects are typically undertaken during production or after a system has been fielded At this point opportunities for substantially reducing costs are more limited Our work on commercial best practices suggests that the opportunities to significantly influence costs occur earlier in the life cycle of a system Generally we found significant variance in both the use and support of value engineering throughout the services For example neither the Air Force or the Navy have full time staff resources dedicated to the VE program and consider VE just one of many tools available to reduce costs At one Navy buying activity we could not identify any VE projects while at other Air Force and Navy buying activities we identified isolated instances where VE projects were being undertaken In contrast the Army has a more structured program with staff resources committed to managing the program and developing VE projects However even within the Army there were variances in management emphasis from command to command For the 11 weapons system programs we examined we found that DOD program managers use a variety of strategies as alternatives to or in conjunction with VE But how or when VE or other strategies are used varies by project Like VE other strategies often seek to motivate contractors to submit cost reduction ideas and sometimes provide opportunities for contractors to share in the savings Some program managers said they consider the VE tool or methodology but said they use other approaches better suited to their programs or integrated into their management approach The limited use of the VE program has been the result of a changing acquisition environment and the administrative burdens associated with the program DOD introduced a variety of new cost reduction initiatives in the 1990s as it looked for ways to reduce costs and create a more efficient acquisition environment DOD also changed its procedures and processes to foster greater efficiency and cost effectiveness For example DOD encouraged programs to replace military specifications and standards with performance specifications giving contractors configuration control and resulting in less need for contractors to submit

changes to DOD for approval Administrative requirements also contributed to limited contractor participation in the VE program The proposal process is seen as complex and resource intensive

Department of Defense Value Engineering Program Needs Top Management Support United States. General Accounting Office,1977 *DoD Value Engineering Conference Report. Value Engineering (VE) - A Tool that Benefits Line Management Held at Leesburg, Virginia on 1-2 November 1984. Part 7. Workshop E: VE in Construction and Architect Engineer Contracts* G. Frank,L. Paulson,DOD PRODUCT ENGINEERING SERVICES OFFICE ALEXANDRIA VA.,1985 This Conference Report summarizes and consolidates the proceedings from the 1984 DoD Value Engineering Conference held 1 2 November in Leesburg VA The findings and recommendations with supporting material from the five workshops are provided in addition to the complete plenary session presentations An Executive Summary is presented in Part I Part VII Workshop E VE in Construction and Architect Engineer Contracts papers include Value Engineering Program Scope of Work for Open End Contract for Value Engineering Services A E Restrictions Things Beyond His Control DoD Directive 4245 8 FAR 52 248 With Recommended Changes 1983 Annual Report of the Deputy Assistant Secretary of Defense Installations Keywords include Value Engineering Conference Report

Summary Audit Report on DoD Value Engineering Programs ,1997 This report summarizes the results of the joint audit of the DoD Value Engineering Programs The audit was requested by the Office of the Under Secretary of Defense for Acquisition and Technology to satisfy the requirement in Office of Management and Budget Circular No A 131 Value Engineering May 21 1993 that agency value engineering programs be audited 2 years after issuance of the Circular During the audit the Inspector General DoD and the Army and Air Force Audit Agencies issued 12 audit reports on DoD Value Engineering Programs Office of Management and Budget Circular No A 131 requires Federal agencies to use value engineering as a management tool where appropriate to ensure realistic budgets to identify and remove nonessential capital and operational costs and to improve and maintain optimum quality of program and acquisition functions The DoD Value Engineering Program involves both in house and contractor programs The DoD has reported more value engineering savings than other Federal agencies For FY 1994 the DoD reported value engineering savings of 855 million and investment costs of 248 million For FY 1995 DoD reported value engineering savings of 734 4 million and investment costs of 43 9 million The audit objective was to determine whether DoD value engineering policies procedures and implementation of the revised Office of Management and Budget Circular No A 131 were adequate and the reported value engineering savings for FY 1994 and FY 1995 were valid The audit also assessed how extensively value engineering was included in contracts whether contractors believed they were encouraged to participate in the value engineering program and how value engineering related to other streamlining or savings initiatives The audit also evaluated the adequacy of management control programs applicable to the VE programs

Barriers to More Active Contractor Participation in the Department of Defense Value Engineering Program John Ray,Naval Postgraduate School (U.S.),1998-06-01 The purpose of this thesis is to determine the

barriers to more active contractor participation in the DOD Value Engineering VE program A review of professional literature such as DOD Inspector General General Accounting Office and other research reports provide the background information necessary to explain potential barriers to more active contractor participation in the DOD VE program Thirty telephone surveys were conducted with Government and contractor personnel to solicit the opinions of these acquisition professionals concerning barriers to more active contractor participation in the DOD VE Program The results and analysis of the interviews are reported It was concluded that there are four significant barriers preventing more active contractor participation in the DOD VE program The four significant barriers to more active contractor participation in the DOD VE program are insufficient funding the VECP submission and approval process a low level of VE awareness among acquisition professionals and a lack of support for the VE program among top level DOD management Recommendations to improve contractor participation in VE are establishment of a centrally managed VE fund streamlining the VECP process increased VE awareness training additional VE personnel resources enforcement of VE savings goals and greater top level management support

Value Engineering in the DOD Acquisition Process Michael Gluck, DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA., 1976 The report describes Value Engineering from its conception and introduction into the defense systems acquisition process The Value Engineering discipline the emphasis interest and image is described together with its interrelationships with other recent developed cost reduction techniques Finally the issue of revitalizing Value Engineering from top Government officials is addressed and recommendations offered The data and narrative in the report is based on interviews with key personnel in the Value Engineering Office of OSD DA and DOD components The revitalization and renewed interest is supported with copies Appendices C through I of memoranda and letters among OSD and DOD level Author

Government Management of Contractor Submission of Value Engineering Change Proposals Gary George Given, NAVAL POSTGRADUATE SCHOOL MONTEREY CA., 1985 The purpose of this thesis is to determine how the Department of Defense value engineering policies and processing procedures affect a contractor's motivation to submit value engineering change proposals A comparative analysis of the DOD Value Engineering Program with private industry's value analysis program and also an examination of how the Hughes Aircraft Company has used the DOD Value Engineering Program resulted in three conclusions The first conclusion is that the incentives offered by the DOD Value Engineering Program have been found by private industry to be ineffective in attracting supplier participation in value analysis The second conclusion is that delays in incorporating the VECP in the end item significantly reduces a contractor's motivation to submit future VECPs The third conclusion is that the contractor's perception of the government buying activity's willingness to fairly evaluate VECPs is the most significant influence on a contractor's motivation to submit VECPs Author

Effect of Value Engineering Changes on Reliability of Equipment in Service United States. Office of the Assistant Secretary of Defense (Installations and Logistics), 1969

DoD Value Engineering Conference Report. Value Engineering (VE) - A Tool that Benefits Line

Management Held at Leesburg, Virginia on 1-2 November 1984. Part 2. Plenary Session G. Frank, L. Paulson, DOD PRODUCT ENGINEERING SERVICES OFFICE ALEXANDRIA VA., 1985 This Conference Report summarizes and consolidates the proceedings from the 1984 DoD Value Engineering Conference held 1-2 November in Leesburg VA The findings and recommendations with supporting material from the five workshops are provided in addition to the complete plenary session presentations An Executive Summary is presented in Part I Plenary Session Moving Value Engineering Conference The Hughes Aircraft Company Approach to Value Engineering E 3A Value Engineering FMC Value Engineering Program FAR DoD FAR Supplement VECPs the IG View Collateral Savings The Real Challenge Where's the Map and A Value Engineering Coordinator's Perception of the DOD Value Engineering Program Keywords Value Engineering Conference Report

Principles and Applications of Value Engineering, 1980 *DoD Value Engineering Conference Report. Value Engineering (VE) - A Tool that Benefits Line Management Held at Leesburg, Virginia on 1-2 November 1984. Part 5. Workshop C: VEP/VECP Administration, Negotiation, and Implementation*, 1985 This Conference Report summarizes and consolidates the proceedings from the 1984 DoD Value Engineering Conference held 1-2 November in Leesburg VA The findings and recommendations with supporting material from the five workshops are provided in addition to the complete plenary session presentations An Executive Summary is presented in Part I Part V Workshop C VEP/VECP Administration Negotiation and Implementation Keywords Value Engineering Conference Report **DoD Value Engineering Conference Report. Value Engineering (VE) - A Tool that Benefits Line Management Held at Leesburg, Virginia on 1-2 November 1984. Part 3. Workshop A: VE in the Program Office**

G. Frank, L. Paulson, DOD PRODUCT ENGINEERING SERVICES OFFICE ALEXANDRIA VA., 1985 This Conference Report summarizes and consolidates the proceedings from the 1984 DoD Value Engineering Conference held 1-2 November in Leesburg VA The findings and recommendations with supporting material from the five workshops are provided in addition to the complete plenary session presentations An Executive Summary is presented in Part I Reports in PT III are Value Engineering VE Program Managers and VE and the R D Engineer Keywords Value Engineering Conference Report **Value Engineering** United States. Army Management Engineering Training Agency, United States. Department of Defense, 1968 *DoD Value Engineering Conference Report. Value Engineering (VE) - A Tool that Benefits Line Management Held at Leesburg, Virginia on 1-2 November 1984. Part 1. Executive Summary* G. Frank, L. Paulson, DOD PRODUCT ENGINEERING SERVICES OFFICE ALEXANDRIA VA., 1985 This Conference Report summarizes and consolidates the proceedings from the 1984 DoD Value Engineering Conference held 1-2 November in Leesburg VA The findings and recommendations with supporting material from the five workshops are provided in addition to the complete plenary session presentations An Executive Summary is presented in Part I Proposed actions include Up Front Funding VECF Processing Time VECF Approval Disapproval VE Training Improvement of Communication Accounting for VE Savings and VE as Performance Review Item Keywords Value Engineering and Conference Report **The**

Management of Value Engineering in Defense Contracts United States. Department of Defense, 1969 **DoD Value Engineering Conference Report. Value Engineering (VE) - A Tool that Benefits Line Management Held at Leesburg, Virginia on 1-2 November 1984. Part 4. Workshop B: VE on Spare Parts**, 1985 This Conference Report summarizes and consolidates the proceedings from the 1984 DoD Value Engineering Conference held 1 2 November in Leesburg VA The findings and recommendations with supporting material from the five workshops are provided in addition to the complete plenary session presentations An Executive Summary is presented in Part I Part IV Workshop B VE on Spare Parts includes papers Talking Paper on Spare Parts Spare Parts Acquisition Buy Our Spares Smart BOSS Contracting and Manufacturing DLA Value Engineering VE and Competition Advocate Interface Reverse Engineering Standardization of 440 Volt Input Power Cables and GIDEP VEDISARS Keywords Value Engineering Conference Reports **Value Analysis, Value Engineering** M.E. Davis (Jr.), 1964 **Defense Industry Value Engineering Program Review** ASSISTANT SECRETARY OF DEFENSE (MANPOWER INSTALLATIONS AND LOGISTICS) WASHINGTON DC., 1968 Significant opportunities appear to exist for increasing defense industry participation and effectiveness in the DoD Value Engineering Program through stimulating a much greater exploitation of the savings sharing potential of industry initiated Value Engineering Change Proposals VECPs It is concluded that defense industry will probably increase its VECF activity significantly 1 When it is generally convinced that its DoD customer is receptive to industry initiated VECFs 2 When DoD VECF processing time is reduced and the quality and quantity of VECF feedback information are improved 3 If the DoD closely monitors experience and problems under the current VE Armed Services Procurement Regulation provisions and makes timely corrections as necessary to maintain strong industry motivation 4 If all concerned DoD and defense industry personnel have a thorough understanding of the intent objectives and procedures of the DoD VECF Program

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web suggested activity use this resource could be used as a whole class investigation with older children observing differences and similarities with hand warmers leading to research on how they work children can investigate why materials have been chosen for the hand warmers linking to previous knowledge on materials and properties

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web $m \times c \times \Delta t$ equation 1 where m is the total mass of the solution solute plus solvent c is the specific heat of the solution and Δt is the observed temperature change the specific heat of the solution is generally assumed to be the same as that of *guided inquiry designing the ideal hand warmer* - Dec 27 2022

web the heat of reaction ΔH_{soln} is written after the products in units of kJ mol rxn for example sodium hydroxide dissolves exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$ $\Delta H_{\text{soln}} = -44.2 \text{ kJ mol}^{-1}$ write equations to similarly represent the dissolving process for

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web hand warmers are usually placed inside the gloves to keep your hands warm the heat keeping your hands warm is

formed as a result of an exothermic reaction which occurs in a small packet hand warmers have 5 main ingredients in them salt carbon polypropylene vermiculite water and iron

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web safety 1 all chemicals in the laboratory are to be considered dangerous do not touch taste or smell any chemicals unless specifically instructed to do so 2 never remove chemicals or other materials from the laboratory area 3 do not eat food drink beverages or chew gum in the laboratory

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web when the hand warmer pack is activated the solid dissolves in water and produces a large temperature change in the form of heat in this laboratory experiment the heat of solution will be calculated from the data for six salts in order to

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web background the hand warmers are filled with sodium acetate click the metal disc and you will notice the liquid changes state and becomes a solid in the process heat is released the sodium acetate is a supersaturated solution

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web oct 9 2021 sodium acetate coin or other small piece of metal plastic bags seal the coin inside a small bag place this bag inside a larger bag containing supersaturated sodium acetate get this by dissolving as much sodium acetate as possible in hot water this chemical hand warmer is reusable

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web the goal of my experiment and research is to evaluate the various number of compounds to be used as hand warmers and locate the ones that can raise the temperature to 20 degrees celsius in 100 g water and costs as little as possible

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web in this lab you are challenged to use chemistry to determine which ionic compound makes the best hand warmer in this experiment you will collect data that will allow you to calculate the heat of solution ΔH_{soln} or the amount of energy released or absorbed in kJ/mol of the substance being dissolved

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web mar 4 2014 contains water the hand warmer is struck in a manner that ruptures the inner pouch releasing the ionic salt into the water of the outer pouch the salt dissolves and the water warms this type of hand warmer tends to produce a

more vigorous heat than the dry powder type of hand warmer but does not produce heat for quite as long

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web feb 2 2017 this is a video outlining a flinn lab on designing a hand warmer it was created by alex brinley charis conwell and siena joy for our ap chemistry class

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web hand warmers provide a unique and fun way to study the chemistry of crystal formation and heat generation by pressing a button in a pouch which contains a supercooled solution you start a rapid exothermic heat producing crystallization in this science fair project you will determine how the starting temperature affects hand warmer chemistry

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web lab investigation in today s experiment you will design and execute an experimental procedure to determine which of three ionic compounds is most suitable for use in a hand warmer the three compounds you will use is determined by the group number you are assigned the ideal hand warmer