

### ASSESSING ORGANIZATION CULTURE READINESS FOR KNOWLEDGE MANAGEMENT IMPLEMENTATION: THE CASE OF AERONAUTICAL SYSTEMS CENTER DIRECTORATE OF CONTRACTING

#### **THESIS**

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Acknowledgements	
List of Tables	viii
Abstract	ix
I. Introduction	1
Background	1
Research Questions	4
The Study	4
Thesis Overview	4
II. Literature Review	6
Knowledge And Intellectual Capital Management	6
Organizational Benefits of KM	9
Information Technology's Role In KM	9
KM Project Focus Areas  Knowledge Repositories  Improve Knowledge Access  Enhance The Cultural Support For Knowledge Use  Manage Knowledge As An Asset	10 11 13
KM And Change Management	14
Knowledge Gap" Addressed By This Study	15\
III. Methodology	19
Research Design	19
Population And Sampling Frame	21
Instrument Design	22

#### **Table of Contents**

	Page
Questionnaire Organization	26
Demographics	26
Data Collection	27
Data Analysis	27
Survey Instrument Reliability And Validity	29
Summary	31
V. Results and Analysis	32
Survey Response	32
Results Analysis	36
Reliability - Cronbach's Alpha	
Analysis of Means and Standard Deviations	
Appropriateness	
Semantic Differential Scale	
Management Support	
Participation	
Communication Climate	
Quality of Information	
Perceived Organizational Support	
Positive Affect	
Negative Affect	
Efficacy	
Innovativeness	
Job Satisfaction	
Turnover Intention	
Pessimism	
Change Commitment (Affective)	
Change Commitment (Continuance)	
Overall Readiness For Change	
Demographics	47
Continuous And Interval Data Items	
Nominal Data Items	
Summary	50
V. Conclusions and Recommendations	51
Overview	51

#### **Table of Contents**

	Page
Conclusions and Recommendations	51
Primary Research Question	51
Secondary Research Question	53
Study Limitations	53
Survey Timing	53
Survey Distribution Phasing	54
Demographic Data on Repondent's Career	54
Respondent Understanding of Subject Matter	54
Positive Attitudes Of Survey Respondents	55
Suggestions for Further Study	55
Appendix A – Survey Questionnaire Items Used for the Survey Instrument, Their Sources and Existing Reliability Data	57
Appendix B – Survey Instrument	63
Appendix C – Raw Data Collected From Survey	73
Appendix D – Dot Plots With Lines Of Best Fit (Demographics by Variables)	161
Bibliography	193
Vita	197

#### **List of Tables**

Table	Page
Table 4-1 - Primary Career Field	33
Table 4-2 – Supervisory Status	33
Table 4-3 – Levels Separated from Management	33
Table 4-4 – Highest Level of Education Attained	34
Table 4-5 – Gender	34
Table 4-6 – Civilian/Military Status	34
Table 4-7 – Other Miscellaneous Demographics	35
Table 4-8 – Response Rates by Variable Category	36
Table 4-9 – Cronbach's Alpha by Variable Category	37
Table 4-10 – Sample Means and Standard Deviations by Variable Category	38
Table 4-11 – Population Inferences by Variable	46
Table 4-12 - R-Squared for Means by Demographics (via fitting a line)	48
Table 4-13 - R-Squared for Means by Demographics (via oneway ANOVA)	49

#### **Abstract**

The DoD is currently pursuing a wholesale transformation that impacts all facets of DoD operations and responsibilities. At the same time, the commercial sector has been experiencing significant changes that drive them to look for new ways of remaining competitive and profitable. Leveraging knowledge (intellectual capital) to increase efficiency and effectiveness within the organization has become a popular management technique that has been successful in many commercial firms. The DoD has noted the commercial sector successes and initiatives to better manage knowledge are being developed and implemented on an enterprise-wide basis as well as on a local-organizational basis. Previous research suggests that an organization's readiness for change is a critical factor in whether or not implementation of knowledge management projects is successful. The previous research also suggests that readiness for change is determined by change content, process, context, and individual variables.

This thesis focuses on measuring readiness for change within the Contracting Directorate at Aeronautical Systems Center (ASC/PK) located at Wright-Patterson AFB, Ohio and whether or not there are any demographic correlations to readiness for change within the organization. ASC/PK's readiness for change was measured using a cross-sectional survey methodology and the results suggest that the ASC/PK population is generally ready for change in regard to knowledge management initiatives; however, several areas have been highlighted for improvement to increase overall readiness. Furthermore, the results of the study do not suggest any demographic correlations.

## ASSESSING ORGANIZATION CULTURE READINESS FOR KNOWLEDGE MANAGEMENT IMPLEMENTATION: THE CASE OF AERONAUTICAL SYSTEMS CENTER DIRECTORATE OF CONTRACTING

#### I. Introduction

#### **Background**

The DoD is currently pursuing a wholesale transformation that impacts all facets of DoD operations and responsibilities. The Executive Summary of the transformation study prepared for the Secretary of Defense and dated April 27, 2002 states, "To transform our military capabilities we need to transform the way we prepare forces, including the requirements, acquisition, infrastructure, training, and personnel (including leader development) processes." As part of the DoD, the United States Air Force (USAF) supports this transformation imperative. The Air Force Posture Statement 2002 states, "Now, more than ever, our military must transform to preserve the asymmetric advantages it currently enjoys – specifically, its air and space capabilities." For USAF procurement, the transformation initiative will involve examination and alignment of policy, processes, people, and technology (Wells, 2002).

At the same time, the commercial sector is also experiencing drastic changes resulting from the increased pace of evolutionary and revolutionary change; a more knowledge intensive nature to goods and services (e.g., increased tailoring of products and services based on knowledge of customer needs and desires); rapid globalization of the marketplace; shifts in the size and attrition rates of employee bases; organizational structure changes that matrix people by market versus geography; and the increasing

capabilities and decreasing costs of IT (Ruggles, 1997). These changes have driven commercial firms to pursue a transformation of their own to increase efficiency and effectiveness in order to remain competitive. To this end, many business practitioners and academicians are identifying and exploring new business management techniques, many of which focus on knowledge. Knowledge has always been critical to success, but it did not need the explicit management that it does now (Ruggles, 1997:2). Some firms are experiencing successes in managing knowledge and this in-turn is encouraging other organizations to focus on managing knowledge (Ruggles, 1997:8).

A management technique that has received a great deal of attention at this time is intellectual capital management (ICM). Several authors have published books conceptualizing intellectual capital with suggestions on how it can be leveraged and managed to create value (Stewart, 1997; Stewart, 2001; Edvinsson & Malone, 1997; Sveiby, 1997). ICM focuses on leveraging the non-physical assets of a business that add value and are a source of competitive advantage. Intellectual capital is the knowledge (expertise) that develops around and is applicable to a task, person, or organization plus the tools that augment this knowledge or deliver the knowledge to others when they need them (Stewart, 1997).

Part and parcel with ICM is knowledge management (KM), which "is an approach to adding or creating value by more actively leveraging the know-how, experience, and judgment resident within and, in many cases, outside of an organization." (Ruggles, 1998:80) As is discussed in the next chapter of this paper, research suggests that many commercial firms have successfully improved efficiency (reduced cost) and

increased effectiveness by implementing prudent ICM and KM initiatives within their organizations.

Historically, the DoD has adopted successful commercial-sector initiatives to improve efficiency and effectiveness. Total Quality Management (TQM) and the current Federal Acquisition Regulation (FAR) Part 12 commercial acquisition techniques are examples of DoD implementing commercial-sector initiatives to drive improvements. In this tradition and as part of the transformation initiative, the DoD has already begun to implement some KM projects to improve efficiency and effectiveness. For the USAF specifically, the office of the Chief Information Officer (CIO) is currently working on developing and implementing an enterprise level KM strategy. This strategy focuses on establishing an infrastructure (establishing leadership and implementation teams and deploying software that serves as a "portal" for knowledge sharing throughout the USAF) (Nguyen, 2002). Another USAF initiative currently being developed is Aeronautical Enterprise Knowledge Management (AEKM), which focuses on multi-discipline collaboration ("What is AEKM?" 2002). In addition to these enterprise level projects, there are a variety of organizational level projects. For example, the Contracting Directorate at Aeronautical Systems Center (ASC/PK) currently posts lessons learned for various acquisition topics, maintains some limited electronic documentation archives, and maintains a directory of topic experts within their committee and policy division.

Such projects represent changes to the status quo and, as such, are often subject to implementation barriers that require prudent change management. One of these barriers can be the organization's readiness for change. As is further discussed in Chapter II, the organization's readiness for change is a critical antecedent for successful ICM/KM

project implementation. Consequently, when an organization contemplates implementing projects, it must take into account the organization's readiness for change or risk failure.

#### **Research Questions**

Does the culture within ASC/PK currently exhibit a level of readiness for change to facilitate successful implementation of ICM/KM projects? And as a secondary question, is there a correlation between specific demographic characteristics and readiness for change within ASC/PK?

#### The Study

In order to investigate the research questions stated above, a survey of ASC/PK personnel was conducted. The data that was gathered from this survey was analyzed to determine ASC/PK's readiness for change and any correlations between readiness for change and specific demographic groups within ASC/PK. The results of this analysis can then be used by ASC/PK in their future planning to determine what, if any, measures should be taken to change the culture within ASC/PK to better support ICM/KM.

#### **Thesis Overview**

Chapter I furnishes subject matter background, the research question, and a brief description of the study. Chapter II provides a literature review that summarizes what scholars and researchers have published on the topic (relevant to this research). This literature review addresses a general discussion of ICM and KM, their benefits, various

categories of projects that are being successfully implemented in the commercial sector, and the concept of readiness for change. Chapter III presents the research methodology used in this study and identifies strengths and weaknesses of the methods used. Chapter IV sets forth a detailed analysis of the collected data and the findings that resulted from this analysis. Finally, Chapter V provides conclusions and recommendations.

#### **II.** Literature Review

A review of the existing literature revealed numerous research efforts and published articles relative to ICM, KM, and change management. This chapter focuses on reviewing existing literature on these topics. Areas covered include: knowledge and intellectual capital management, organizational benefits of KM, the role of information technology, project focus areas, change management, and the *knowledge gap* addressed by this study.

#### **Knowledge And Intellectual Capital Management**

Knowledge and intellectual capital is now being considered part of a firm's total value along with the traditional categories of physical capital (plant, equipment, and inventory) and financial capital (cash, receivables, and investments) (Lynn, 1998:11). This has given rise to a new field of management known as intellectual capital management (ICM). Stewart (1997) has popularized a taxonomy (originally developed by Hubert Saint-Onge of the Canadian Imperial Bank of Commerce and Leif Edvinsson of Skandia) whereby intellectual capital is categorized into three groups: human capital, customer (relational) capital, and structural capital. Human capital is the knowledge, skills, and competencies of organizational members. Customer (relational) capital is supplier relationships, satisfied customers, and other external intangible value-adding assets. Structural capital is systems, processes, culture, and intellectual property (Lynn, 1998:11). The American Society for Training & Development (ASTD) through their Effective Knowledge Management Working Group identified a fourth category that it called innovation capital. Innovation capital is the capability to innovate and create new

products and/or services (Van Buren, 1999:73). Structural capital resides within the organization while the other categories of intellectual capital are transient; therefore, the goal of ICM is to transform the transient forms of intellectual capital into structural capital (Lynn, 1998: 11). In other words, the goal is to capture and maintain all intellectual capital that is valuable to the firm, so that it is useable throughout the firm and does not disappear through the shortcomings of human memory or turnover of personnel.

Another management technique that is popular in the current business literature is knowledge management (KM). Monsanto has characterized KM as connecting people with other knowledgeable people, connecting people with info, enabling conversion of info to knowledge, encapsulating knowledge for ease of transfer, and distributing knowledge around the organization (Junnarkar, 1997:35). In Chapter I, intellectual capital was defined as knowledge and the tools to augment knowledge, so how is KM different from ICM? Some authors treat the terms as interchangeable (Duffy, 2001; Masoulas, 2000; and Stewart, 2001). IBM treats the terms interchangeably as evidenced by their naming the formal, enterprise-wide knowledge management program as "Intellectual Capital Management" (Huang, 1998: 570)

Other authors have made distinctions between the two terms. For instance, Lynn (1998) asserts that data given structure are information; information purposefully used and/or consumed becomes knowledge; and knowledge transformed into something of value to the organization becomes intellectual capital. In other words, knowledge is a resource that becomes part of intellectual capital. She uses this distinction from an accounting point of view to distinguish intellectual assets (knowledge assets) such as

patents as being debits and intellectual capital, the total organizational wealth invested in the intellectual assets, as being credits (Lynn, 1998:11). The ASTD Effective Knowledge Management Working Group characterizes KM as the processes and enablers within ICM (Van Buren, 1999: 73).

A recent study of 40 companies (USA, Japan, and Europe) suggests that many executives believe KM only entails implementation and use of complex information technology (IT) systems (Hauschild et al, 2001:74). This IT mentality can be seen in such large, global firms as NCR where the KM is managed through the IT organization and has a predominantly IT focus (Fergerson, 2002). ICM and its taxonomy highlights the non-IT aspects of KM to make it a more holistic approach. For instance, the categorization of customer (relational) capital acknowledges the open systems theory of knowledge (knowledge is constantly being exchanged outside the organization) expounded by authors such as Nonaka & Takeuchi (1995). ICM also highlights knowledge as an asset of the business that should be considered part of its balance sheet. Bernadette Lynn has characterized ICM as the value-driven transformation of human and relational capital into the structural capital of the organization (Lynn, 1998) and, in this researcher's opinion, this equates to knowledge management (taking individual knowledge and knowledge from outside the organization and capturing it as an organizational asset that can be accessed and shared).

For purposes of this research study, there is no need to make semantic distinctions between ICM and KM. Consequently, for the balance of this thesis, the term *KM* will be used in referring to the management techniques discussed above.

#### **Organizational Benefits of KM**

KM projects are not a bromide for an organization's ills, but just one of many components of effective management (Davenport et al, 1997). With this being said, there is evidence that effective KM is beneficial to organizations in cost and time savings as well as developing internal capabilities to become more competitive. An IBM case study suggests that KM leads to improvements in efficiency (get knowledge/expertise faster), customer satisfaction (right solution more quickly), wiser use of resources (no reinvention of the wheel), and generation of new business (KM gives new solutions) (Huang, 1998). A recent McKinsey survey compared 15 companies that were considered successful at KM with 15 companies that were not. The successful KM companies cut throughput time for order generation and fulfillment by an average of 11% and cut development time by an average of 4.6% from 1995 to 1998 (Hauschild et al, 2001:76).

#### Information Technology's Role In KM

IT is very important as a facilitator for sharing knowledge quickly (Huang, 1998:582 and Junnarkar, 1997:37); however, it should not be viewed as the only KM tool. Although information technology solutions are often the first thing that comes to mind when thinking about KM, many authors have pointed out that organizations must look beyond IT because capturing and sharing tacit knowledge (stories, gossip, observation, etc.) is where much of the leverage can be gained (Hauschild et al, 2001; Pfeffer & Sutton, 1999; Huang, 1998; and "Prescription for Knowledge Management", 1997).

#### **KM Project Focus Areas**

Based on a recent study of 31 KM projects in 23 firms, Davenport and his colleagues at Ernst & Young have identified the following KM project focus areas that result in increased efficiency and effectiveness within organizations:

- 1) Create Knowledge Repositories
- 2) Improve Knowledge Access
- 3) Enhance the Cultural Support for Knowledge Use Within the Organization
- 4) Manage Knowledge as an Asset (Davenport et al, 1997).

#### **Knowledge Repositories**

Knowledge repositories are places where knowledge can be stored for access by many within the organization. A good example of a knowledge repository is a digital library. Digital libraries are used to archive information in document form, provide a dynamic database/warehouse of corporate knowledge, map human knowledge within organization, and capture knowledge in high bandwidth multimedia (video) (Row, 1997:1-2). NCR currently uses a digital library that electronically stores documents. They are in the process of transitioning to an XML format versus a document format for stored information to facilitate management of "smaller pieces" of knowledge rather than the current management at a document level (Fergerson, 2002).

The World Bank conducts video interviews with their employees who are on the verge of retirement and combines this video record with hyperlinks to important documents and reports so that their knowledge can be preserved and shared within the organization (Lesser & Prusak, 2001: 102). Other companies such as Monsanto have

page" listings of expertise within their organizations (Junnarkar, 1997: 37-38). There are several software applications (e.g. Cerebyte Inc.'s Infinos ) that are designed to extract and capture employee know-how to populate knowledge repositories. (Duffy, 2001:59).

#### Improve Knowledge Access

To leverage knowledge, the knowledge has to be accessible to the right people at the right time. A number of different types of KM projects have been implemented to address accessibility. Electronic communities have been established to allow networked groups to engage in many-to-many knowledge sharing interactions (Williams & Cothrel, 2000). Monsanto uses internet/intranet and collaborative workgroup software as well as people networks (communities of practice) (Junnarkar, 1997: 37-38). A "Virtual Teamwork" system was developed and fielded by British Petroleum (BP) to facilitate collaboration across geography and their organizational structure. This concept involved providing their various sites video conferencing equipment, multimedia e-mail, application sharing, shared chalkboards, tools to record video clips, groupware, web browsers, ISDN lines, and document scanners. Although very IT intensive, the system was aimed at behavior and work patterns versus IT. By using this system, the crew on a drilling ship was able to collaborate real-time with experts many miles away to fix a mechanical problem in a matter of hours when it previously would have taken days. (Cohen, 1997). BP has also digitized quarterly briefings where every presenter makes a video report that is later copied on CD and distributed throughout the company (Cohen, 1997:18).

Hewlett-Packard uses Lotus Notes software, Frequently Asked Questions (FAQ) systems, a "Trainer's Trading Post," and networks of experts to share knowledge within the firm (Davenport, 1997). IBM has implemented the "ICM AssetWeb," an enterprise knowledge infrastructure that includes different tools to facilitate knowledge sharing and collaboration (Huang, 1998: 577). Electronic "portals" that provide a means of pointing knowledge seekers in the right direction are also be used. NCR Corporation uses "indexing" software to act as an electronic portal that links users to the separate databases maintained by the individual business units. (Fergerson, 2002). Establishing IT channels to knowledge outside the organization can result in external inspiration that leads to knowledge creation within the organization (Hauschild et al, 2001:80-81).

Although the majority of the knowledge access initiatives previously mentioned are heavily IT oriented, there are other non-IT measures that are used. For instance, an effective measure that has been employed is putting experienced and new employees together on projects to share tacit knowledge via imitation and adoption (Lesser & Prusak, 2001:102). The benefit of face-to-face interaction for sharing knowledge should not be ignored (Davenport et al, 1997). Formal systems can't easily store and transfer tacit knowledge (Pfeffer & Sutton, 1999). Other non-IT approaches to improving access to knowledge include assigning product designers to the manufacturing shop floor, colocating personnel, initiating a job rotation program and networking with external partners, and providing regular training with internal and external experts. (Hauschild et al, 2001:79-80).

#### Enhance The Cultural Support For Knowledge Use

A recent McKinsey survey found that "successful companies build a corporate environment that fosters a desire for knowledge among their employees and that ensures its continual application." (Hauschild et al, 2001:76). Some measures used to enhance culture is to set world class standards for key processes, establish employee incentives, use participative decision-making, and establish cross-functional teams (Hauschild et al, 2001). For example, a Massachusetts company pays bonuses to retiring employees who share their knowledge with replacements (Lesser & Prusak, 2001: 102).

#### Manage Knowledge As An Asset

Knowledge/intellectual capital is now being considered part of a firm's total value along with the tradition categories of capital: physical capital (plant, equipment, and inventory) and financial capital (cash, receivables, and investments) (Lynn, 1998:11).

Ramona Dzinkowski reports that a survey by the Canadian Institute of Chartered Accountants (CICA) found that top executives of Canadian Financial Post 300 and U.S.

Fortune 500 firms believe that knowledge resources are critical for business success. She also reports that the Brookings Institute has identified an upward trend in the percentage of firms' market value represented by intangible assets since 1982 (Dzinkowski, 2000:32).

Acknowledging this new category of capital, the challenge then becomes how do you account for the value of knowledge/intellectual capital. A 1997 Ernst & Young Center for Business Innovation survey (as reported by Rudy Ruggles) found measuring the value of knowledge assets was the second biggest difficulty facing firms in their knowledge management activities and only 4% of the respondents claimed that their firm

performed well in the area of knowledge asset measurement (Ruggles, 1998: 82,87). One author states that the traditional balance sheet handicaps a firm's agility by not effectively measuring intellectual capital investment and that new indicators are needed for valuation of intangible assets (Van Buren, 1999:71). Some companies such as Skandia, Dow Chemical, and Buckman Laboratories have developed company-specific measurement systems, but these systems can not be widely applied (Van Buren, 1999:72).

Efforts to address measurement of intellectual capital have focused on stocks of intellectual capital (quantity & value) and effectiveness (change in value, performance impacts (financial & non-financial), and learning) (Van Buren, 1999:72) and the literature includes numerous proposed measurement techniques (Van Buren, 1999; Dzinkowski, 2000; Pfeffer & Sutton, 1999; and Lynn, 1998).

In managing knowledge as an asset, the organization's goal turns to growing and preserving knowledge because it adds value. When Agilent Technologies decided that labor costs needed to be reduced, rather than laying off people and losing the knowledge they possessed, the company instead implemented a 10% across-the-board pay cut (Lesser & Prusak, 2001: 102).

#### **KM And Change Management**

For most organizations, KM is a new way of looking at and doing things, and as such, is subject to the problems incident to implementing changes within an organization. Change management is a subject that continues to receive much focus in business research and authors have studied organizational changes and suggested effective change management techniques (Gibson, Ivancevich, & Donnelly, 2001). Based on case study

research, KM projects require more fundamental behavior shifts than other change initiatives because of the perceived link between knowledge and power (Davenport et al, 1997). Consequently, change management becomes a paramount concern with KM project development and implementation. One of the many factors suggested by researchers to improve the speed and effectiveness of change implementation is management's ability to create readiness for change (Fry & Killing, 1986). In fact, it has been suggested that readiness and commitment to change must be developed before implementation of a change is truly effective (Turner, 1982: 125).

Readiness for change is defined as "a comprehensive attitude that is influenced simultaneously by the content (i.e., what is being changed), the process (i.e., how the change is being implemented), the context (i.e., circumstances under which the change is occurring), and the individuals (i.e., characteristics of those being asked to change) involved and collectively reflects the extent to which an individual or a collection of individuals is cognitively and emotionally inclined to accept, embrace, and adopt a particular plan to purposefully alter the status quo." (Holt et al, 2002)

#### Knowledge Gap Addressed By This Study

Aeronautical Systems Center (ASC), located at Wright-Patterson Air Force Base, Ohio, is one of the United States Air Force's (USAF's) major product centers. Within ASC are numerous System Program Offices (SPOs) responsible for the management of various aerospace programs including aircraft, missiles, training systems, propulsion, and unmanned air vehicles. ASC also includes various functional staff organizations such as logistics, engineering, finance, and contracting. The ASC Contracting Directorate,

ASC/PK, is responsible for tactical and strategic contractual support to the various SPOs as well as to the Air Force Research Laboratory (AFRL) and the base procurement office. A separate pricing shop is also maintained with pricing personnel being assigned to various programs/organizations as needed. A centralized staff function within ASC/PK handles the policy, management review, human resource management, and other staff functions while individual contractual professionals and supporting clerical personnel are assigned to and located in the various SPOs and the separate contracting shops that support the AFRL and base procurement. These contracting personnel may be further assigned to various Integrated Product Teams (IPTs) within the various organizations.

The contracting function is a predominantly knowledge and process-driven function. There is no physical product other than physical contractual documents and correspondence. Taking into account the nature of the contractual function and the decentralized organizational structure of ASC/PK, sharing and retaining knowledge has become a serious issue for the organization. Consequently, information technology, KM, and business processes have received considerable focus in the acquisition reform initiatives within ASC/PK. ASC/PK has already implemented the following KM projects:

- 1) An expertise *yellow pages* (limited only to PK staff personnel)
- 2) Electronic document archiving
- 3) Internal training by subject matter experts
- 4) An intranet with various functional information, limited lessons learned, and links to other useful world-wide web sites.

These projects are fairly limited in their scope and there is much room to improve the knowledge sharing within the ASC/PK community and thereby improve the efficiency and effectiveness of the organization. Although not always formally labeled as KM projects, knowledge and ways to improve knowledge sharing within ASC/PK (or at a lower organizational level) are common management issues and various initiatives are being implemented at the SPO level. For instance, the C-17 SPO implemented it's own document archiving initiative and contractual information sharing project using its internal shared computer drives. Another SPO contracting organization has an electronic interface with the contractor to share information digitally and to foster increased collaboration

Additional KM initiatives are also being developed at USAF and DoD enterprise levels. One such initiative is the Aeronautical Enterprise Knowledge Management (AEKM) initiative mentioned earlier. ASC/PK is involved in the early implementation planning for this initiative, which is being developed and mandated by higher headquarters.

As discussed above, change management is critical for the success of KM projects and an organization's readiness for change is a critical determinant to successful change implementation. With AEKM on the horizon, other KM projects being investigated within ASC/PK, and individual KM initiatives being pursued by the SPO contracting organizations, it therefore logically follows that ASC/PK management should assess the organization's readiness for change. If there is not currently sufficient readiness for change, management should take action to improve readiness prior to implementation of new KM projects, some of which may involve significant monetary investment. This

researcher's literature review did not uncover any previous studies that evaluated ASC/PK's readiness for change in relation to KM. This constitutes the *knowledge gap* addressed in the study behind this thesis.

#### III. Methodology

This chapter describes the research methods used to study ASC/PK's readiness for change in regard to KM projects. Inductive reasoning is used in this research effort to form general conclusions from the particular data collected. This chapter covers the research design, population of interest, sampling frame, instrument design, data collection, data analysis techniques, and reliability/validity of this study.

#### **Research Design**

In general, this study involves empirical social research and employed a survey methodology. Survey research is a valid method of scientific inquiry for the social researcher because it is logical, deterministic, parsimonious, general (for understanding a larger population), and specific (specific responses, questions, coding, and scoring) (Babbie, 1990:40-44). This methodology was chosen as the most applicable of the various social science research methods. One of the primary purposes of survey research is to make descriptive assertions about some population (Babbie, 1990:51). This is a good match for this research effort since the study is intended to make descriptive assertions about the readiness for change within ASC/PK. In addition, the survey methodology was the most practical methodology considering that sufficient time and resources were not available to accomplish alternate methods of data collection. The survey methodology also facilitates establishment of a permanent source of information (the data) that can be used for future follow-on analysis (Babbie, 1990:44). This is advantageous for future research on ASC/PK's readiness for change.

Some exploratory research (via a literature review) was required to identify variables that can be used to measure the *readiness for change* construct. This

exploratory research played a vital role in developing a valid survey. Holt et al's definition of readiness for change (Holt et al, 2002), the variables Holt identified for measurement, and the various measurement scales that he compiled from various researchers (Holt, 2002 (interview)) were used to develop the survey instrument for this study.

The study used a cross-sectional survey (data collected at one point in time) (Dooley, 2001) and was distributed in two phases. In the first phase, the survey was distributed via e-mail as a printable questionnaire that was to be completed and physically mailed back to the researcher. The response rate during this phase was poor. In the second phase, the survey was made available in a web-based format in which all responses would be collected on-line via the Internet. Participation by all ASC/PK personnel was desired. The population and details of data collection are discussed in greater detail later in this chapter.

The data collected was analyzed using inferential and descriptive statistics. Descriptive statistics furnishes the means of describing data in a manageable form and inferential statistics facilitates drawing conclusions about a population from the study of a sample within the population (Babbie, 1990:283). The responses received from the survey instrument comprise the data used in the statistical analysis of this study. The data represents the sample information, from the analysis of which, this researcher has drawn conclusions concerning ASC/PK's readiness for change regarding KM projects.

#### **Population And Sampling Frame**

The study population was comprised of all personnel assigned to ASC/PK (Air Force Materiel Command (AFMC) being the next higher tier management organization with the USAF). Within ASC/PK there are contract negotiators and administrators (commonly referred to as buyers), contracting officers, pricing specialists, managers, clerical specialists, staffers, and reviewers. All KM projects can potentially impact personnel in all of these job categories; therefore, it logically follows that all ASC/PK personnel constitute the study population. In practice, researchers can seldom guarantee that every element that meets the theoretical definition of the population actually has a chance of being selected in the sample (Babbie, 1990:72). For instance, workers may be inadvertently omitted from personnel lists. Consequently, a distinction is made between the theoretical population and the survey population; the survey population being "...that aggregation of elements from which the survey sample is actually selected." (Babbie, 1990:72) In this study the survey population is comprised of 722 ASC/PK personnel included in the PK-ALL e-mail address group. The survey instrument was distributed to all 722 personnel within this e-mail address group; therefore, these 722 personnel also constitute the sampling frame with the study sample being those personnel who responded to the survey. This study sample is considered a representative sample because all members of the study population had an equal chance of responding.

#### **Instrument Design**

#### Variables Measured

The literature review in Chapter II provided a definition of readiness for change. The survey instrument in this study utilized 116 items drawn from scales previously developed by other researchers to measure variables that compose readiness for change. Appendix A identifies the 116 items drawn from previously developed scales, identifies the researcher(s) that developed each scale, and addresses existing data on the reliability of the scales. The 116 items identified in Appendix A measure the following variables associated with the readiness for change construct (Holt, 2002 (interview)):

#### **Change Content (what is being changed)**

Semantic Differential Scale - Uses adjective pairs to measure what an object or concept means to the respondent (Kazlow, 1977).

Appropriateness - Measures the extent the respondent feels the change effort is legitimate & appropriate to meet organizational objectives (Holt, 2002).

Personal Valence - Measures respondent's perception as to whether or not he or she will benefit from the change (Holt, 2002).

#### **Process Variables (how the change is being implemented)**

Management Support - Measures respondent's perception of management support and commitment to implementing a change (Holt, 2002).

- Participation Measures respondent's perception of how much he or she was able to give input and participate in the change process (Wanberg & Banas, 2000).
- Communication Climate Measures perception that respondent received necessary communication with higher scores indicating effective communications (Miller, Johnson, & Grau, 1994).
- Quality of Information Measures perception of receiving useful and meaningful information during change process (Miller et al, 1994).

### Contextual Variables (circumstances under which the change is occurring)

Perceived Organizational Support - Measures respondent's perception that the organization values their contribution, treats them favorably, and cares about their well-being with high scores indicating that they feel the organization is committed to them (Eisenberger, Huntington, & Sowa, 1986).

Discrepancy - Measures perceived need for change (Holt, 2002 (interview)).

Principal Support - Measures perceived support of the change from peers and managers (Holt, 2002 (interview)).

#### Individual Variables (characteristics of those being asked to change

Positive Affect - Measures respondent's disposition relative to feeling enthusiastic, active, and alert with higher scores indicating higher

- levels of energy, full concentration, and pleasurable engagement (Watson, Clark, & Tellegen, 1988).
- Negative Affect Measures respondent's disposition toward feeling adverse mood states (such as anger, contempt, disgust, fear, and nervousness) with high scores indicating general levels of distress (Watson et al, 1988).
- Efficacy Measures how much the respondent feels he or she had the necessary skills and ability to implement the change (Holt, 2002).
- Innovativeness Measures respondent's willingness to change (Hurt, Joseph, & Cook, 1977).
- Change Commitment Measures behavioral support for the change in three subcategories: 1) continuance (i.e., being pressured to go along with the change), 2) normative (i.e., feeling obligated to support the change), and 3) affective (i.e., positive feelings about the change and a desire to be part of it) (Herscovitch & Meyer, 2002).
- Pessimism Measures pessimism toward impending change (Wanous, Reichers, & Austin, 2000).
- Job Satisfaction Measures how respondents view their job with high scores indicating overall satisfaction with the job (Cammann, Fichman, Jenkins, & Klesh, 1983).

Turnover Intentions - Measures intentions to leave the organization with low scores indicating an intention to remain in the organization (Camman et al., 1983).

Change Anxiety - Measures concern or anxiety about impending change with high scores indicating little anxiety (Miller et al., 1994).

#### Questionnaire Item Format

The Semantic Differential Scale items took the form of paired words describing general feelings toward the change (i.e., Good & Bad) to which the respondents were asked to indicate the strength of their emotions (on a spectrum from neutral to extremely). The Positive Affect and Negative Affect items used words describing emotions (i.e., Ashamed) to which the respondents were asked to indicate the level to which they were experiencing such emotions (on a spectrum from extremely to very slightly or not at all). All other items were in the form of statements to which the respondents were asked to indicate their level of agreement (on a spectrum from strongly disagree to strongly agree). Respondents provided their responses to all the items via a Likert scale. The Likert scale is a format developed to identify the degree to which respondents hold a particular attitude or perspective (Babbie, 1990:127). The wording of the questionnaire items was administratively revised, where appropriate, to match the subject matter of the study and organizational context, but the content and intent were preserved.

#### **Questionnaire Organization**

The items were divided into three separate questionnaire sections; attitudes toward knowledge sharing, attitudes toward ASC/PK and your job, and attitudes about yourself. The assignment of the various questionnaire items to the separate sections was based on a logical grouping of the items based on their subject and the expert opinion of Major Daniel Holt, a faculty member of the Air Force Institute of Technology (AFIT) who holds a PhD with a focus on change management. Once the items were assigned to sections, they were then randomly ordered (except for the semantic differential scale items and the positive and negative affect items). This randomization was accomplished so that similar items were not in close proximity within the questionnaire. When similar items are in close proximity, respondents tend to become discouraged or annoyed, which may adversely impact response rates.

#### **Demographics**

In addition to the above-mentioned variables, the questionnaire also asked the respondents to provide demographic information as described earlier. Follow-on studies may be conducted to determine how future ASC/PK actions have impacted readiness for change; therefore, it will be necessary to compare individual responses from this study to responses in any follow-on study. To facilitate this comparison while preserving anonymity, individual respondents to the questionnaire were asked to generate an eight-digit identification code comprised of the last two letters of their last name, the last two numbers of their social security number, the last two letters of the mother's maiden name, and the numerical two-digit month of their birth. A copy of the final questionnaire used in this study is set forth in Appendix B.

### **Data Collection**

The questionnaire was provided via e-mail to the ASC Director of Contracting, Mr. Milton Ross. He, in turn, distributed the questionnaire via e-mail to the 722 ASC/PK personnel who were located at Wright-Patterson AFB, Ohio, and who were listed in the PK-ALL e-mail address group. This e-mail distribution was made on December 12, 2002. Participation was voluntary and anonymous. Each respondent printed a hardcopy of the questionnaire, completed it, and returned it to the researcher via inter-office mail. There was no interaction between the researcher and the respondents. This initial distribution yielded 70 responses and several of these responses did not complete the entire questionnaire.

In an effort to increase the response rate, the questionnaire was re-distributed in a web-based format. Mr. Vic Andre, a web administrator for AFIT, transformed the questionnaire into a web-based format and made the questionnaire accessible via the Internet. No content changes were made to the questionnaire. On January 16, 2003, ASC/PK issued a follow-up e-mail to the PK-ALL e-mail address group and provided the web address for the questionnaire. Responses were automatically captured in a Microsoft Access® software database. This second distribution yielded 76 additional responses.

## **Data Analysis**

Data analysis for this research was accomplished using descriptive and inferential statistics with the aid of JMP®, MathCad®, and Microsoft Excel® software. These programs were selected based on the researcher's familiarity with the programs and the

ease with which data is transferred between the programs. Tabulation, data organization, and basic mathematical calculations were accomplished in Excel® and the data set was then transferred to JMP® statistical software for further statistical analysis. Calculations related to normal distribution curves were accomplished using MathCad®.

Within some of the variable categories, the questionnaire items were worded in both a negative and positive manner. The responses were normalized by reverse coding as if all items were worded in a positive manner (e.g., a "strongly disagree" (1) response in a negatively worded item was reverse coded to a "strongly agree" (7)). A mean score by variable category for each respondent was calculated. The sample mean of the respondent mean scores and the sample standard deviation for each variable category were then calculated.

Analysis of the sample means and the standard deviations provides insight into the central tendency and variability of the responses within each category. Based on the sample means and standard deviations and applying the Central Limit Theorem, normal distribution curves were then generated to make inferences about ASC/PKs attitudes within the various variable categories. For the demographics that involved continuous or interval data (age, years worked at ASC/PK, years worked at current job, and years until retirement), dot plots were constructed and lines of best fit calculated to check for correlations between the mean respondent scores and these demographic categories. Similarly, for the demographics that involved nominal data (career, management levels from ASC/PK, gender, level of education, military vs. civilian, civilian with prior military service, military rank, and supervisory status), oneway analysis of variance (ANOVA) assessments were conducted to check for correlations between the mean

respondent scores and these demographic categories. The sample means, standard deviations, distributions, dot plots, best line fits, and ANOVAs are discussed in Chapter IV. Analysis began after collection of the data and was performed to describe and make inferences about ASC/PK's readiness for change.

### **Survey Instrument Reliability And Validity**

Good survey research demands that the researcher assess both reliability (how accurately the data represents the truth) and validity (how well the instrument measures what it intends to measure) (Litwin, 1995). Types of reliability include test-retest, intraobserver, alternate-form, internal consistency and interobserver (Litwin, 1995). Test-Retest reliability measures response consistency of data gathered from the same group over time (Litwin, 1995). Intraobserver reliability measures response consistency of an individual over time (Litwin, 1995). Alternate-Form reliability measures the consistency of responses to alternately worded or alternately ordered items over time (Litwin, 1995). Internal consistency reliability measures how well different items measure the same variable (Litwin, 1995). Interobserver reliability measures consistency of two or more evaluators' assessment of a variable (Litwin, 1995).

Since this study involves a self-administered, cross-sectional survey design, internal consistency reliability is the only applicable type of reliability. Internal consistency reliability has been previously assessed for many of the variables and the coefficient alpha scores from previous research are noted in Appendix A. (Note: The change anxiety variable has a low coefficient alpha score and the discrepancy and

principal support variables are developmental; however, they were included in the survey instrument for this study based on the expert opinion of Major Daniel Holt.) For each of the variable categories in this study, coefficient alpha scores were calculated to verify internal consistency reliability. These scores and their assessment are included in Chapter IV.

Types of validity include face, content, criterion (concurrent and predictive), and construct (Litwin, 1995). Face validity involves a casual assessment of item appropriateness (Litwin, 1995). Content validity is a formal, subjective measure of appropriateness of items from reviewers who are knowledgeable about the subject matter (Litwin, 1995). Concurrent criterion validity is a measure of the appropriateness of an instrument when compared to another instrument that is acknowledged as a *gold standard* for assessing the same variable (Litwin, 1995). Predictive criterion validity is a measure of the appropriateness of an instrument for forecasting the future (Litwin, 1995). Construct validity is a measure of the how meaningful an instrument is based on practical use over multiple settings and populations (Litwin, 1995).

There is no *gold standard* for measuring readiness for change and this study is not predictive in nature; therefore, concurrent and predictive criterion validity are not applicable. The instrument is new and there is no history of its use; therefore, construct validity is not applicable. Face validity and content validity were addressed for this study during the survey review process used prior to distribution. A draft survey was developed and provided to several individuals for input and validation. Face validity was assessed by Ms. Sue L. Tormey, Ms. Donna Sizemore, and Mr. Michael Adams, staff personnel within ASC/PK. Content validity was assessed by Major Daniel T. Holt and

Lieutenant Colonel Summer E. Bartczak. Major Holt is a faculty member of the Air Force Institute of Technology (AFIT) and holds a PhD with a focus on change management. Lieutenant Colonel Bartczak is also a faculty member of AFIT and holds a PhD with a focus on knowledge management. The input received from these individuals was included in the final survey, where appropriate, and they coordinated on the final version of the survey prior to distribution.

## **Summary**

This is an empirical study that uses a cross-sectional survey methodology to make descriptive assertions about ASC/PK's readiness for change relative to KM initiatives and any correlations between readiness for change and various demographic categories. The survey instrument is a compilation of items that previous researchers have used to measure various aspects of readiness for change. The survey instrument also requests demographic information from the respondents. The literature review and preliminary instrument review provided the necessary information, reliability, and validation for the survey instrument used in this study. Chapter IV covers the results and analysis based on the study's methodology.

### IV. Results and Analysis

As discussed in previous chapters, the data consisted of survey responses. The survey instrument is included as Appendix B to this thesis. The raw data collected from the surveys is presented in Appendix C. Chapter IV describes the data analysis for the study and addresses the survey response, results analysis, and demographics. The responses from each survey were compiled into various charts and tables, which are analyzed and presented below.

## **Survey Response**

As discussed earlier, the survey was distributed in two phases. The first phase distribution took place in December 2002 and requested hardcopy responses. The second phase distribution took place in January 2003 and was web-based with all responses automatically captured in an electronic database. As mentioned in the previous chapter, the data was normalized by reverse coding the negatively worded questionnaire items thereby consistently making all undesirable responses low values and all desirable responses high values within the response scales. Those items that were reverse coded are identified with a "[R]" in each applicable item's column header in Appendix C.

Of the survey population of 722, 146 submitted responses for an overall response rate of 20.2 %. For ease of calculations, all demographic responses given in terms of years was converted to months. Based on demographic information collected with the questionnaire, the study sample has the characteristics summarized in Tables 4-1 through 4-7 below.

Table 4-1 - Primary Career Field

	Number	Percent of Total Respondents
Buyer	51	34.9%
Contracting Officer	40	27.4%
Pricer	3	2.1%
Procurement Technicians	6	4.1%
Staff	6	4.1%
Management	8	5.5%
Administrative Support	1	0.7%
Not Indicated	31	21.2%

Table 4-2 - Supervisory Status

	Number	Percent of Total Respondents
Supervisor*	32	21.9%
Non-Supervisor	85	58.2%
Not Indicated	29	19.9%

<sup>\*</sup> The supervisors had an average of 13.1 employees each.

Table 4-3 - Levels Separated from Management (how many levels respondent is separated from ASC/PK Director of Contracting)

Number		Percent of Total Respondents
1 Level	25	17.1%
2 Levels	18	12.3%
3 Levels	42	28.8%
4 Levels	24	16.4%
5 Levels	3	2.1%
Not Indicated	34	23.3%

33

Table 4-4 - Highest Level of Education Attained

	Number	Percent of Total Respondents
Doctorate Degree	1	0.7%
Master's Degree	60	41.1%
Bachelor's Degree	45	30.8%
Associate Degree	2	1.4%
High School Diploma	8	5.5%
Some High School	0	0%
Not Indicated	30	20.5%

Table 4-5 - Gender

	Number	Percent of Total Respondents
Male	68	46.6%
Female	48	32.9%
Not Indicated	29	20.5%

Table 4-6 - Civilian/Military Status

	Number	Percent of Total Respondents	Percent of SubGroup
Civilian	101	69.2%	
Prior Military	17	11.6%	16.8%
No Prior Military	79	54.1%	78.2%
Not Indicated	5	3.4%	5.0%
Military	16	11.0%	
Enlisted	0	0.0%	0%
2 <sup>nd</sup> Lieutenant	2	1.4%	12.5%
1 <sup>st</sup> Lieutenant	2	1.4%	12.5%
Captain	6	4.1%	37.5%
Major	3	2.1%	18.8%
Lt. Colonel	2	1.4%	12.5%
Colonel	0	0.0%	0.0%
Not Indicated	1	0.6%	6.2%
Civ/Mil Status Not Indicated	29	19.8%	

**Table 4-7 - Other Miscellaneous Demographics** 

Average Number of Years Worked for	12.6 years
ASC/PK (32 did not respond)	
Average Number of Years in Current	3.1 years
ASC/PK Job (34 did not respond)	
Average Number of Years Until	12.7 years
Retirement (32 did not respond)	
Average Age of Respondents (35 did not	43.4 years
respond)	

Each of the 21 variables measured was analyzed separately. Within each variable, if the survey respondent failed to provide a response for one or more of the questionnaire items, that particular respondent was excluded for that variable. For example, six questionnaire items were included in the survey to measure management support. If a respondent only responded to five of the six, that respondent was excluded from the analysis of the management support variable. Consequently, although the overall response rate to the survey was 20.2% of the 722 in the population, the response rates for each individual variable were somewhat lower (see Table 4-8 below).

**Table 4-8, Response Rates by Variable Category** 

Variable	Complete Responses	Response Rate	
Change Content			
Appropriateness	120	16.6%	
Valence	121	16.8%	
Semantic Differential Scale	120	16.6%	
Process			
Management Support	124	17.2%	
Participation	119	16.5%	
Communication Climate	120	16.6%	
Quality of Information	122	16.9%	
Context			
Perceived Organizational Support	120	16.6%	
Discrepancy	120	16.6%	
Principal Support	124	17.2%	
Individual			
Positive Affect	117	16.2%	
Negative Affect	118	16.3%	
Efficacy	121	16.8%	
Innovativeness	120	16.6%	
Job Satisfaction	120	16.6%	
Turnover Intention	119	16.5%	
Change Anxiety	120	16.6%	
Pessimism	119	16.5%	
Change Commitment			
Affective	121	16.8%	
Continuance	122	16.9%	
Normative	120	16.6%	

# **Results Analysis**

# Reliability - Cronbach's Alpha

Complete responses for each variable were used to compute Cronbach's alpha scores for each variable category. The calculations were accomplished using JMP5® statistical software. The alpha scores are summarized in Table 4-9 below.

Table 4-9 – Cronbach's Alpha by Variable Category

Variable	α
Change Content	
Appropriateness	.91
Valence	.62
Semantic Differential Scale	.89
Process	
Management Support	.84
Participation	.77
Communication Climate	.78
Quality of Information	.82
Context	
Perceived Organizational Support	.92
Discrepancy	19
Principal Support	.65
Individual	
Positive Affect	.95
Negative Affect	.87
Efficacy	.84
Innovativeness	.84
Job Satisfaction	.90
Turnover Intention	.89
Change Anxiety	.66
Pessimism	.83
Change Commitment	
Affective	.88
Continuance	.74
Normative	.64

The standard for internal consistency is a Cronbach's alpha score greater than or equal to 0.70 (DeVellis, 1991; Nunnally & Bernstein, 1994). The valence, discrepancy, principal support, change anxiety, and normative change commitment variables did not meet this threshold; therefore, they were considered unreliable measures and omitted from further analysis.

# Analysis of Means and Standard Deviations

The mean score per each variable category with a Cronbach's alpha equal to or greater than 0.70 was calculated for each respondent. The sample mean and standard deviation were then calculated based on the means of the individual respondents. The Sample means and standard deviations are summarized in Table 4-10 below:

Table 4-10, Sample Means and Standard Deviations by Variable Category

Variable	Scale	Mean	Std Dev
Change Content			
Appropriateness	1-7	5.42	0.87
Semantic Differential Scale	1-7	5.53	1.13
Process			
Management Support	1-7	4.26	1.05
Participation	1-7	4.13	1.16
Communication Climate	1-7	4.22	1.28
Quality of Information	1-7	3.77	1.32
Context			
Perceived Organizational Support	1-7	4.44	1.33
Individual			
Positive Affect	1-5	3.34	0.97
Negative Affect	1-5	4.57	0.47
Efficacy	1-7	5.39	0.93
Innovativeness	1-7	5.07	0.92
Job Satisfaction	1-7	5.47	1.32
Turnover Intention	1-7	5.66	1.43
Pessimism	1-7	4.74	1.22
Change Commitment			
Affective	1-7	5.50	0.86
Continuance	1-7	4.07	1.06

There is no *gold standard* threshold for determining if the mean and standard deviation reflect a sample response that is favorable in regard to readiness for change. When trying to implement a change, it is logically assumed that it is better to have more of the impacted population view the change positively versus negatively. In other words, at least a majority (> 50%) of the impacted population should be positive about the change. Based on this assumption, each of the readiness for change variables listed in

Table 4-10 above were analyzed to make inferences concerning the percentage of the ASC/PK population who would rate each variable positively. Those variables with inferred population percentages greater than 50% were considered to positively contribute to readiness for change.

## **Appropriateness**

For an organization that is ready for change, it logically follows that a majority of the population should feel that the change effort is legitimate and appropriate for the organization to meet its goals, in which case a majority of the population would give a mean response higher than neutral (4) for the Appropriateness variable. Based on the sample mean (5.42) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 94.9% of ASC/PK would score higher than neutral (4) for the Appropriateness variable. This suggests that a majority of the ASC/PK personnel feel that knowledge sharing projects are legitimate and appropriate for the organization to meet its goals.

## Semantic Differential Scale

For an organization that is ready for change, it logically follows that the change in question would be viewed positively by majority of the population, in which case a majority of the population would give a mean response higher than neutral (4) for the Semantic Differential Scale variable. Based on the sample mean (5.53) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 91.2% of ASC/PK would score higher than neutral (4) for the Semantic Differential Scale variable. This suggests that a majority of the ASC/PK personnel have a positive view of knowledge sharing projects.

## Management Support

For an organization that is ready for change, it logically follows that a majority of the population should feel that the organization's leadership and management are committed to and support implementation of the prospective change, in which case a majority of the population would give a mean response higher than neutral (4) for the Management Support variable. Based on the sample mean (4.26) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 59.8% of ASC/PK would score the Management Support variable greater than neutral. This suggests that a majority of the ASC/PK personnel feel that ASC/PK's leadership and management are committed to and support implementation of knowledge sharing projects.

## Participation

For an organization that is ready for change, it logically follows that a majority of the population should feel that they have had input and participated in the change process, in which case a majority of the population would give a mean response higher than neutral (4) for the Participation variable. Based on the sample mean (4.13) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 54.5% of ASC/PK would score higher than neutral (4) for the Participation variable. This suggests that a majority of the ASC/PK personnel feel that they have had input and participated in the change process relative to knowledge sharing projects.

### Communication Climate

For an organization that is ready for change, it logically follows that a majority of the population should feel that they are receiving necessary information, in which case a majority of the population would give a mean response higher than neutral (4) for the Communication Climate variable. Based on the sample mean (4.22) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 56.8% of ASC/PK would score higher than neutral (4) for the Communication Climate variable. This suggests that a majority of the ASC/PK personnel feel that ASC/PK is providing necessary information relative to knowledge sharing projects.

## Quality of Information

For an organization that is ready for change, it logically follows that a majority of the population should feel that they have had useful and meaningful information throughout the change process, in which case a majority of the population would give a mean response higher than neutral (4) for the Quality of Information variable. Based on the sample mean (3.77) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 43.1% of ASC/PK would score higher than neutral (4) for the Quality of Information variable. This suggests that a majority of the ASC/PK personnel do not feel that they have had useful and meaningful information concerning knowledge sharing projects.

## Perceived Organizational Support

For an organization that is ready for change, it logically follows that a majority of the population should feel that the organization values their contributions, treats them favorably, and cares about their well-being, in which case a majority of the population would give a mean response higher than neutral (4) for the Perceived Organizational Support variable. Based on the sample mean (4.44) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 63.0% of ASC/PK would score higher than neutral (4) for the Perceived Organizational Support variable. This suggests that a majority of the ASC/PK personnel feel that ASC/PK values their contribution, treats them favorably, and cares for their well-being.

## Positive Affect

For an organization that is ready for change, it logically follows that a majority of the population should be disposed to feel enthusiastic, active, and alert, in which case a majority of the population would give a mean response higher than neutral (3) for the Positive Affect variable. Based on the sample mean (3.34) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 63.7% of ASC/PK would score higher than neutral (3) for the Positive Affect variable. This suggests that a majority of the ASC/PK personnel are disposed to feel enthusiastic, active, and alert.

## Negative Affect

For an organization that is ready for change, it logically follows that a majority of the population should not be disposed to feel a variety of adverse mood states, in which case a majority of the population would give a mean response higher than neutral (3) for the Negative Affect variable. Based on the sample mean (4.57) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit

Theorem, roughly 100% of ASC/PK would score higher than neutral (3) for the Negative Affect variable. This suggests that a majority of the ASC/PK personnel are not disposed to feel adverse mood states.

### Efficacy

For an organization that is ready for change, it logically follows that a majority of the population should feel that they have the skills and are able to execute the tasks and activities that are associated with the implementation of the prospective change, in which case a majority of the population would give a mean response higher than neutral (4) for the Efficacy variable. Based on the sample mean (5.39) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 93.2% of ASC/PK would score higher than neutral (4) for the Efficacy variable. This suggests that a majority of the ASC/PK personnel feel that they have the skills and are able to execute the tasks and activities that are associated with the implementation of knowledge sharing projects.

## **Innovativeness**

For an organization that is ready for change, it logically follows that a majority of the population should feel an underlying innovativeness (interpreted as a willingness to change), in which case a majority of the population would give a mean response higher than neutral (4) for the Innovativeness variable. Based on the sample mean (5.07) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 87.8% of ASC/PK would score higher than neutral (4) for the Innovativeness variable. This suggests that a majority of the ASC/PK personnel feel an underlying innovativeness (willingness to change).

### Job Satisfaction

For an organization that is ready for change, it logically follows that a majority of the population should view their jobs positively, in which case a majority of the population would give a mean response higher than neutral (4) for the Job Satisfaction variable. Based on the sample mean (5.47) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 86.7% of ASC/PK would score higher than neutral (4) for the Job Satisfaction variable. This suggests that a majority of the ASC/PK personnel view their jobs positively.

## **Turnover Intention**

For an organization that is ready for change, it logically follows that a majority of the population should not have intentions of leaving the organization, in which case a majority of the population would give a mean response higher than neutral (4) for the Turnover Intention variable. Based on the sample mean (5.66) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 87.7% of ASC/PK would score higher than neutral (4) for the Turnover Intention variable. This suggests that a majority of the ASC/PK personnel do not intend to leave the organization.

## Pessimism

For an organization that is ready for change, it logically follows that a majority of the population should not feel pessimistic concerning impending changes, in which case a majority of the population would give a mean response higher than neutral (4) for the Pessimism variable. Based on the sample mean (4.74) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem,

roughly 72.8% of ASC/PK would score higher than neutral (4) for the Pessimism variable. This suggests that a majority of the ASC/PK personnel do not feel pessimistic concerning impending knowledge sharing projects.

## Change Commitment (Affective)

For an organization that is ready for change, it logically follows that a majority of the population should demonstrate behavioral support for the change in the form of having positive feelings about the change and a desire to be part of it, in which case a majority of the population would give a mean response higher than neutral (4) for the Change Commitment (Affective) variable. Based on the sample mean (5.50) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 95.9% of ASC/PK would score higher than neutral (4) for the Change Commitment (Affective) variable. This suggests that a majority of the ASC/PK personnel have positive feelings about knowledge sharing projects and desire to be part of these changes.

## **Change Commitment (Continuance)**

For an organization that is ready for change, it logically follows that a majority of the population should demonstrate behavioral support for the change in the form of feeling pressure to go along with the change, in which case a majority of the population would give a mean response higher than neutral (4) for the Change Commitment (Continuance) variable. Based on the sample mean (4.07) and standard deviation observed in this study and assuming a normal distribution based on the Central Limit Theorem, roughly 52.6% of ASC/PK would score higher than neutral (4) for the Change

Commitment (Continuance) variable. This suggests that a majority of the ASC/PK personnel feel pressure to go along with knowledge sharing projects.

# Overall Readiness For Change

The population proportion inferences described above are summarized in Table 4-11 below.

**Table 4-11, Population Inferences by Variable** 

Variable	Approx. % Scoring Above	Scale	
	Neutral		
Change Content			
Appropriateness	94.9%	1-7 (4 neutral)	
Semantic Differential Scale	91.2%	1-7 (4 neutral)	
Process			
Management Support	59.8%	1-7 (4 neutral)	
Participation	54.5%	1-7 (4 neutral)	
Communication Climate	56.8%	1-7 (4 neutral)	
Quality of Information	43.1%	1-7 (4 neutral)	
Context			
Perceived Organizational Support	63.0%	1-7 (4 neutral)	
Individual			
Positive Affect	63.7%	1-5 (3 neutral)	
Negative Affect	100.0%	1-5 (3 neutral)	
Efficacy	93.2%	1-7 (4 neutral)	
Innovativeness	87.8%	1-7 (4 neutral)	
Job Satisfaction	86.7%	1-7 (4 neutral)	
Turnover Intention	87.7%	1-7 (4 neutral)	
Pessimism	72.8%	1-7 (4 neutral)	
Change Commitment			
Affective	95.9%	1-7 (4 neutral)	
Continuance	52.6%	1-7 (4 neutral)	

Of these 16 variables, the data suggests that a majority of the ASC/PK population would score 15 of the variables positively (higher than neutral). This suggests that overall the population is ready for change relative to KM projects.

## **Demographics**

## Continuous Data Items

In order to determine if the data suggests a correlation between readiness for change and any of the demographic categories consisting of continuous data (age, years worked at ASC/PK, years worked at current job, and years until retirement), dot plots of the data were constructed and a line of best fit calculated using JMP5® (see Appendix D for dot plots with lines of best fit). For ease of analysis, all demographic responses given in terms of years were converted to months. If there was a correlation between a variable and any one of the demographic categories listed above, there would be a recognizable pattern to the data that reflects this correlation. Fitting a line of best fit through the data tests for linear relationships (with a high R-squared value suggesting a strong linear relationship). A visual inspection of the dot plots tests for any other recognizable relationships. The R-squared values from fitting a line of best fit through the data are summarized in Table 4-12 below.

Table 4-12 – R-Squared for Means by Demographics (via fitting a line)

Variable	Age	Years	Years	Months
		at PK	at	from
			Current	Retire-
			Job	ment
Change Content				
Appropriateness	0.001057	0.010609	0.015643	8.806e-7
Semantic Differential Scale	0.034835	0.02885	0.018004	0.039441
Process				
Management Support	0.006492	0.004103	0.007863	0.002743
Participation	0.007788	0.002946	0.001992	0.003511
Communication Climate	0.010926	0.005244	0.004532	0.005051
Quality of Information	0.006061	0.008998	0.000001	0.0021
Context				
Perceived Organizational Support	0.000125	0.000119	0.001696	0.000005
Individual				
Positive Affect	0.047506	0.016734	0.013416	0.040002
Negative Affect	0.007051	0.002093	0.004545	0.001998
Efficacy	0.074837	0.086022	0.046178	0.027925
Innovativeness	0.026127	0.071842	0.011252	0.03684
Job Satisfaction	0.002883	0.001047	0.002964	0.006833
Turnover Intention	0.012263	0.037743	0.012022	0.001745
Pessimism	0.002275	0.000018	0.003438	0.00037
Change Commitment				
Affective	0.008449	0.029187	0.021831	0.00217
Continuance	0.000004	0.00821	0.00043	0.001371

It is readily apparent from the R-squared values above, that the lines of best fit do not suggest a linear relationship. A visual inspection of the dot plots also does not suggest any recognizable relationships (the dot plots reflect non-patterned "data clouds" – See Appendix D). Based on this analysis, there is no evidence to suggest a correlation between readiness for change and the continuous data demographics.

## Nominal Data Items

In order to determine if the data suggests a correlation between readiness for change and any of the demographic categories consisting of nominal data (career, management levels from ASC/PK, gender, level of education, military vs. civilian,

ANOVA assessments were conducted using JMP5®. If there was a correlation between a variable and any one of the demographic categories listed above, the summary of fit calculations generated by JMP5® for the oneway ANOVA would include a high R-squared value. The R-squared values from the oneway ANOVA assessments are summarized in Table 4-13 below.

Table 4-13 – R-Squared for Means by Demographics (via oneway ANOVA)

Variable	Career	Levels	Gender	Level	MIL	CIV w/	MIL	Super-
		from		of Ed.	VS.	Prior	Rank	visory
		PK			CIV	Military		Status
Change Content								
Appropriateness	0.087373	0.045504	0.020316	0.015921	0.000517	0.010384	0.201063	0.000134
Semantic Diff. Scale	0.068539	0.025115	0.019103	0.053367	0.002828	0.007236	0.166275	0.000354
Process								
Management Support	0.082228	0.048238	0.001292	0.069348	0.000164	0.030742	0.37839	0.00028
Participation	0.135114	0.102818	0.000011	0.096265	0.000644	0.02649	0.196371	0.02974
Comm. Climate	0.045795	0.096308	0.002566	0.044237	0.000044	0.078324	0.642646	0.015526
Quality of Information	0.081903	0.064687	0.000356	0.035358	0.009201	0.027719	0.259578	0.000127
Context								
Perceived Org. Support	0.06466	0.059457	0.001655	0.109152	0.00401	0.027554	0.190168	0.019999
Individual								
Positive Affect	0.114909	0.021294	0.014423	0.048264	0.00867	0.007164	0.422781	0.006533
Negative Affect	0.002522	0.011586	0.010166	0.025088	0.007631	0.020677	0.078938	0.009633
Efficacy	0.058435	0.011207	0.020488	0.016736	0.010287	0.017787	0.35078	0.007843
Innovativeness	0.026851	0.018024	0.006589	0.037522	0.018886	0.032757	0.273003	0.026542
Job Satisfaction	0.067443	0.028879	0.000036	0.073199	0.023135	0.01157	0.322164	0.010597
Turnover Intention	0.078324	0.032275	0.007432	0.040698	0.042177	0.002575	0.196477	0.021812
Pessimism	0.088101	0.026326	0.005441	0.046351	0.002904	0.024054	0.241928	0.001585
Change Commitment								
Affective	0.101623	0.031668	0.000456	0.029215	0.006266	0.01796	0.298327	0.000054
Continuance	0.030316	0.018372	0.002045	0.035103	0.0336	0.01893	0.095951	0.010426

Although the R-squared values are significantly higher within the military rank category (particularly for the Communication Climate variable), the extremely limited number of observations within this category (15 observations) render the oneway ANOVA assessment results highly suspect. Based on this assessment and the R-squared

values above, there is no evidence to suggest a correlation between readiness for change and the nominal data demographics.

# **Summary**

This chapter provided the results from the data collected. Of the 21 variables originally included in the survey instrument, 16 were determined to be reliable measures. Of the 16 reliable measures, 15 suggested positive characteristics of the ASC/PK population that in turn suggest that overall ASC/PK is ready for KM changes. Chapter V presents recommendations concerning ASC/PK's readiness for change relative to KM projects.

## V. Conclusions and Recommendations

#### Overview

This chapter provides conclusions and recommendations for ASC/PK concerning readiness for implementation of KM projects. An organization's readiness for change is crucial to implementation success. Conclusions, recommendations, study limitations, and suggestions for further study are discussed below.

### **Conclusions and Recommendations**

## **Primary Research Question**

Does the culture within ASC/PK currently exhibit a level of readiness for change to facilitate successful implementation of ICM/KM projects?

#### **Conclusions**

Twenty-one variables were identified as measures of readiness for change within an organization. Survey data was gathered for the 21 variables and based on this data 16 of the variables were determined to be reliable measures of change readiness. The individual respondent mean scores and the sample mean score and standard deviation were computed for each of the 16 reliable variables and a distribution analysis was then performed. Of the 16 reliable variables, the sample data was positive for 15 of the variables suggesting that the sample exhibited an overall readiness for change. Based on the sample, we can infer that the ASC/PK population exhibits an overall readiness for change.

#### Recommendations

Since ASC/PK exhibits an overall readiness for change, management should press ahead with implementation of KM projects. As revealed in the literature review, cultural readiness for change is crucial for successful implementation of KM projects; therefore, ASC/PK can proceed with implementation of KM projects with the expectation that readiness for change will not be a primary impediment. Notwithstanding an overall readiness for change, it logically follows that the higher the level of readiness for change, the higher the chances for successful implementation. Consequently, ASC/PK should consider taking steps to improve readiness for change.

The first areas of emphasis should be Quality of Information and Positive Affect variables. Based on the negative scoring of the survey respondents, it can be inferred that a majority of the ASC/PK population do not feel that they have had useful and meaningful information concerning knowledge sharing projects and are not disposed to feel enthusiastic, active, and alert. ASC/PK should consider means of improving these cultural problems.

The second area of emphasis should be those variables that were marginally positive. These marginally positive variables are those for which the study infers that 50-60% of the population would score positively (Management Support, Participation, Communication Climate, and Change Commitment (Continuance)). These areas are currently contributing to an overall cultural readiness for change, but could easily degrade. Consequently, ASC/PK should consider taking steps to increase management support for KM projects, increase the workforce's participation in implementation of such projects, provide more necessary information to the workforce concerning KM

projects, and foster an organizational culture where employees feel pressure to implement such changes.

## **Secondary Research Question**

Is there a correlation between specific demographic characteristics and readiness for change within ASC/PK?

#### **Conclusions**

Various demographic information was collected via the survey and each demographic characteristic was assessed to determine if there was a correlation with any of the readiness for change variables. Fitting a line of best fit, visual evaluation of data dot plots, and oneway ANOVA assessments were used where applicable to check for such correlations. No correlations were found within the sample; therefore, it can be inferred that no such correlations exist within the study population and there is no correlation between demographics and readiness for change within ASC/PK.

#### Recommendations

Since there is no evidence suggesting that a demographic correlation to readiness for change exists, any efforts taken by ASC/PK to improve readiness for change should be directed to the entire ASC/PK population without specific focus upon any particular demographic group.

## **Study Limitations**

## **Survey Timing**

About a month prior to the initial distribution of the survey, it was publicly announced that personnel lay-offs were likely at Wright-Patterson Air Force Base in 2004

and for several years thereafter. Personnel lay-offs tend to be highly emotional and have negative cultural impacts. Since the initial announcement of lay-offs, some employees have received letters stating that their positions have been abolished and that they may be layed-off. As the lay-offs draw closer, ASC/PK's culture and their readiness for change may be impacted. In regard to this study, ASC/PK's readiness for change may have changed during the time that elapsed between the collection of the survey data and the finalization of this thesis.

### Survey Distribution Phasing

As described earlier, there was a month delay between the two separate distributions of the survey. Although none was observed, some event may have occurred during that month timeframe that would impact the population's overall readiness for change. Such a possible event has not been accounted for in the analysis and the study is still considered a cross-functional survey versus a longitudinal survey methodology.

## Demographic Data on Repondent's Career

The survey provided for an open-ended answer to the question of the respondent's career rather than giving a finite choice of responses. Consequently, there was some variability and ambiguity in responses. Some of the responses required the researcher's interpretation in order to assign them to 1 of the 7 career categories identified within this study. This may have contributed to some respondents being assigned to inaccurate career categories.

### Respondent Understanding of Subject Matter

The researcher realized that KM may not be a well known subject to some of the ASC/PK workforce; therefore, the survey included a section that described what was

meant by knowledge sharing projects. Not withstanding this attempt to describe and clarify KM, some of the respondents may still have not understood the subject matter. This was confirmed when several respondents provided survey comments in which they expressed that they were unfamiliar with KM concepts and/or did not really understand the concept of knowledge sharing projects. This may have contributed to error in the data.

## Positive Attitudes Of Survey Respondents

There is a perception that people who take the time to voluntarily complete a lengthy survey are people with generally positive attitudes. Conversely, it is perceived that people with generally negative attitudes will not take the time to voluntarily participate in such surveys. If this is true, the survey data may be biased (skewed to positive responses) and the inferences made from the data may not reflect the study population.

## **Suggestions for Further Study**

This study addressed ASC/PK's readiness for change in relation to implementation of KM projects in general. A follow-on study that addresses one or more specific KM projects may be helpful in making a decision as to the timing or continuation of implementation of those specific projects. The ASC/PK population may be more ready for certain projects than others. A follow-on study would help determine if this is the case or not.

Also, a follow-on study may be useful to compare ASC/PK's readiness for change over time. This would especially be useful if ASC/PK take steps to improve readiness for

change. Such a follow-on study could be used as a gauge as to whether or not ASC/PK's efforts had any impact on the individual variables or overall readiness for change.

Expansion of the study to other organizations within ASC or more overarching organizations such as Air Force Materiel Command, the United States Air Force, or the Department of Defense would provide insight into the readiness for change on a broader scale. Comparisons could be drawn between individual organizations or lower-tier organizations could benchmark themselves against the higher-tier organization to determine if they are good or bad performers within the higher-tier organization. A broader study would also assist decision makers when considering enterprise-wide KM projects.

Appendix A – Survey Questionnaire Items Used for the Survey Instrument, Their Sources and Existing Reliability Data

Sources and Existing Reliability Data				
CHANGE CONTENT VARIABLES (22 Items)	Questionnaire Items			
Appropriateness (Holt, 2002) – Measures	It doesn't make much sense for us to initiate this			
the extent the respondent feels the	change.			
change effort is legitimate &	I think that the organization will benefit from this			
appropriate to meet organizational	change.			
objectives.	This change makes my job easier.			
	This change will improve our organization's overall			
Coefficient alphas of .94 and .80	efficiency.			
respectively were achieved on 2	There are legitimate reasons for us to make this			
separate organizational studies. (Holt,	change.			
2002)	When this change is implemented, I don't believe there is anything for me to gain.			
	There are a number of rational reasons for this			
	change to be made.			
	In the long run, I feel it will be worthwhile for me if			
	the organization adopts this change.			
	The time we are spending on this change should be			
	spent on something else.			
	This change matches the priorities of our			
	organization.			
Valence (Holt, 2002) – Measures	I am worried I will lose some of my status in the			
respondent's perception as to whether	organization when this change is implemented.			
or not he or she will benefit from the	This change will disrupt many of the personal			
change.	relationships I have developed.			
Ĭ	My future in this job will be limited because of this			
Coefficient alphas of .66 and .65	change.			
respectively were achieved on 2	After this change, I expect to be recognized more			
separate organizational studies. (Holt,	for the work I do.			
2002)	This change makes it easier for me to feel like I'm			
,	part of the [organization's name] "team."			
	This change gives me the ability to make decisions			
	about how my work is done.			
Semantic Differential Scale (Kazlow,	Good, Bad			
1977) – Uses adjective pairs to	Progressive, Regressive			
measure what an object or concept	Foolish, Wise			
means to the respondent.	Ineffective, Effective			
	Worthless, Valuable			
Kazlow does not give specific reliability	Positive, Negative			
estimates, but does reference other				
literary sources that address the				
reliability and validity of using				
semantic differential scales				

PROCESS VARIABLES (17 Items)	Questionnaire Items
Management Support (Holt, 2002) –	Our senior leaders have encouraged all of us to
Measures respondent's perception of	embrace this change.
management support and commitment to	Our organization's top decision-makers have put
implementing a change.	all their support behind this change effort.
	Every senior manager has stressed the importance
Coefficient alphas of .87 and .79 respectively	of this change.
were achieved on 2 separate	I think we are spending a lot of time on this
organizational studies. (Holt, 2002)	change when the senior managers don't even want it implemented.
	This organization's most senior leader is
	committed to this change.
	Management has sent a clear signal this
	organization is going to change.
Participation (Wanberg & Banas, 2000) –	I was able to ask questions about this change.
Measures respondent's perception of	I was able to participate in the implementation of
how much he or she was able to give	this change.
input and participate in the change	I had some control over the changes that were
process.	proposed.
C C	If I wanted to, I could have had input into the
Coefficient alpha = .72 (Wanberg & Banas, 2000)	decisions being made about our future
Communication Climate (Miller, Johnson, &	programs.  I feel like no one ever tells me anything about
Grau, 1994) – Measures perception that	what's going on around here.
respondent received necessary	I am thoroughly satisfied with the information I
communication with higher scores	receive about what's going on at
indicating effective communications.	[organization's name].
\$ 1 111 <b>%</b> 1 111 11 11 11 11 11 11 11 11 11 11 11	My performance would improve if I received
Cronbach's coefficient alpha = .79 (Miller et	more information about what's going on
al., 1994)	here.
·	The people who know what's going on here at
	[organization's name] do not share
	information with me.
Quality of Information (Miller et al, 1994) –	The information I received about this change was
Measures perception of receiving useful	timely.
and meaningful information during	The information I received about this change has
change process.	adequately answered my questions.
Cranhach's coefficient alpha = 96 (Million of	The information I received about this change
Cronbach's coefficient alpha = .86 (Miller et al., 1994)	helped me understand the change.

CONTEXTUAL VARIABLES (11 Items)	Questionnaire Items
Perceived Organizational Support	The organization shows very little concern for me.
(Eisenberger, Huntington, & Sowa,	The organization is willing to extend itself in order
1986) – Measures respondent's	to help me perform my job to the best of my
perception that the organization values	ability.
their contribution, treats them	Even if I did the best job possible, the organization
favorably, and cares about their well	would fail to notice me.
being with high scores indicating that	The organization takes pride in my
they feel the organization is committed	accomplishments.
to them.	The organization cares about my general
	satisfaction at work.
Reliability = The original item scale used	The organization really cares about my well-being.
by Eisenberger et al included 32 items.	
Recent research using 9 of the items	
resulted in an alpha coefficient of .92.	
(Wayne, et al., 2002)	
Discrepancy (Holt, 2002 (interview)) –	Our organization has problems that need to be
Measures perceived need for change.	addressed.
	There is a clear vision guiding [organization's
Reliability = Scale is developmental. No	name].
prior reliability data available. (Holt,	There is a clear need for [organization's name] to
2002 (interview))	change our business.
Principal Support (Holt, 2002 (interview)) –	The manager of my unit was committed to making
Measures perceived support of the	the change effort a success.
change from peers and managers.	My peers have supported this change effort.
Reliability = Scale is developmental. Scale	
is developmental. No prior reliability	
data available. (Holt, 2002 (interview))	

INDIVIDUAL VARIABLES (66 Items)	Questionnaire Items
Positive Affect (Watson, Clark, & Tellegen,	Interested
1988) – Measures respondent's	Alert
disposition relative to feeling	Excited
enthusiastic, active, and alert with higher	Inspired
scores indicating higher levels of energy,	Strong
full concentration, and pleasurable	Determined
engagement.	Attentive
	Enthusiastic
	Active
Cronbach's coefficient alpha = .86 to .90	Proud
(Watson et al., 1988)	
Negative Affect (Watson et al, 1988) –	Irritable
Measures respondent's disposition	Distressed
toward feeling adverse mood states (such	Ashamed
as anger, contempt, disgust, fear, and	Upset
nervousness) with high scores indicating	Nervous
general levels of distress.	Guilty
	Scared
Cronbach's coefficient alpha = .84 to .87	Hostile
(Watson et al., 1988)	Jittery
	Afraid
Efficacy (Holt, 2002) – Measures how much	I do not anticipate any problems adjusting to the
the respondent feels he or she had the	work I will have when this change is
necessary skills and ability to implement	adopted.
the change.	When we implement this change, I feel I can
	handle it with ease.
Coefficient alphas of .82 and .79 respectively	When I set my mind to it, I can learn everything
were achieved on 2 separate	that will be required when this change is
organizational studies. (Holt, 2002)	adopted.
	There are some tasks that will be required when
	we change I don't think I can do well.
	I have the skills that are needed to make this
	change work.
	My past experiences make me confident that I
	will be able to perform successfully after
	this change is made.

INDIVIDUAL VARIABLES (continued)	Questionnaire Items		
Innovativeness (Hurt, Joseph, & Cook, 1977)	I am generally cautious about accepting new		
- Measures respondent's willingness to	ideas.		
change.	I rarely trust new ideas until I can see whether the		
Č	vast majority of people around me accept		
Reliability = .94 (Hurt et al., 1977)	them.		
	I am aware that I am usually one of the last people		
	in my group to accept something new.		
	I am reluctant about adopting new ways of doing		
	things until I see them working for people around me.		
	I tend to feel that the old way of living and doing		
	things is the best way.		
	I am challenged by ambiguities and unsolved		
	problems.		
	I must see other people using new innovations		
	before I will consider them.		
	I often find myself skeptical of new ideas.		
Change Commitment (Herscovitch & Meyer,	Affective:		
2002) – Measures behavioral support for	I believe in the value of this change.		
the change.	This change is a good strategy for this		
	organization.		
Alpha Coefficients = .94 (Affective)	I think that management is making a mistake by		
.94 (Continuance)	introducing this change.		
.86 (Normative) (Herscovitch &	This change serves an important purpose.		
Meyer, 2002)	Things would be better without this change.		
Wieyer, 2002)	This change is not necessary. Continuance:		
	I have no choice but to go along with this change.		
	I feel pressure to go along with this change.		
	I have too much at stake to resist this change.		
	It would be too costly for me to resist this change.		
	It would be risky to speak out against this change.		
	Resisting this change is not a viable option for		
	me.		
	Normative:		
	I feel a sense of duty to work toward this change.		
	I do not think it would be right of me to oppose this change.		
	I would not feel badly about opposing this change.		
	It would be irresponsible of me to resist this change.		
	I would feel guilty about opposing this change.		
	I do not fee any obligation to support this change.		

INDIVIDUAL VARIABLES (continued)	Questionnaire Items
Pessimism (Wanous, Reichers, & Austin, 2000) – Measures pessimism toward	Most of the programs that are supposed to solve problems around here will not do much good.
impending change.	Attempts to make things better around here will not produce good results.
Alpha Coefficient = .86 (Wanous &	Suggestions on how to solve problems will not
Reichers, 2000)	produce much real change.
	Plans for future improvement will not amount to much.
Job Satisfaction (Cammann, Fichman,	All in all, I am satisfied with my job.
Jenkins, & Klesh, 1983) – Measures	In general, I don't like my job.
how respondents view their job with	In general, I like working here.
high scores indicating overall	
satisfaction with the job.	
Reliability = .77 (Camman et al., 1983)	
Turnover Intention (Camman et al., 1983) –	I am actively looking for a job outside
Measures intentions to leave the	[organization's name].
organization with low scores indicating	I am seriously thinking about quitting my job.
an intention to remain in the	As soon as I can find a better job, I'll leave
organization.	[organization's name].
Delichility — 92 (Common et al. 1092)	I often thing about quitting my job at
Reliability = .83 (Camman et al., 1983) Change Anxiety (Miller et al., 1994) –	[organization's name].  I feel anxious about the implementation of this
Measures concern or anxiety about	change.
impending change with high scores	The thought of this change worries me.
indicating little anxiety.	Right now, I am somewhat resistant to this change.
matering new america.	Tagit its, I am some macrossam to this ondinge.
Cronbach's Coefficient Alpha = .51 (Miller et al., 1994)	

### Appendix B – Survey Instrument



### READINESS FOR CHANGE QUESTIONNAIRE



**Air Force Institute of Technology** 

#### DEPARTMENT OF THE AIR FORCE

AIR FORCE MATERIEL COMMAND (AFMC)



### Dear Team Member

Please take a few minutes to complete this survey about possible implementation of initiatives to foster improved knowledge sharing. Although your participation is voluntary, we need your feedback to understand how you feel about this change effort. We will use this information to help Senior leadership make future decisions and to ensure that we effectively address your concerns while meeting organizational goals.

Conducted by the Air Force Institute of Technology for the Air Force Materiel Command

### Readiness for change survey

<u>Purpose</u>: Our research team is investigating readiness for implementation of initiatives to improve knowledge sharing. Our goal is to more fully understand ASC/PK's readiness for this type of change and give leaders information that will help them understand your concerns.

<u>Confidentiality</u>: We would greatly appreciate your completing this survey. Your input is important for us to completely understand this change. **ALL ANSWERS ARE STRICTLY CONFIDENTIAL**. No one outside the research team will ever see your questionnaire. Findings will be reported at the group level only. We ask for some demographic and unit information in order to interpret results more accurately, and in order to link responses for an entire unit. Reports summarizing trends in large groups may be published. There may be a follow-up questionnaire at a later date to make comparisons over time. In order to facilitate such comparisons, an 8-digit, anonymous code will be developed for each respondent. To create your code, please fill in the information requested below.

Last two letters of	Last two numbers of	Last two letters of	Month of your birth
your last name (Print)	your Social Security #	your mother's maiden	(two digits – i.e. "01"
		name	for January)

<u>Contact information</u>: If you have any questions or comments about the survey contact Martin Trent at the fax, mailing address, or e-mail address listed below.

Mr. Martin R. Trent c/o AFIT/ENA BLDG 640 2950 P Street

Wright-Patterson AFB OH 45433-7765 Email: martin.trent@afit.edu

Fax: DSN 986-4699; commercial (937) 656-4699

#### **INSTRUCTIONS**

- Base your answers on your own feelings and experiences
- Read directions carefully and mark only one answer for each question
- If completing a paper version, please write clearly making dark marks (feel free to use a blue or black ink pen that does not soak through the paper)
- Avoid stray marks and if you make corrections erase marks completely

#### **MARKING EXAMPLES**

Right Wrong S S

# PART I ATTITUDES TOWARD KNOWLEDGE SHARING

We would like to understand how you feel about the implementation of initiatives to improve knowledge sharing within your organization. The following questions will help us do that. Unless specifically told otherwise, the terms, "organization" refers to the ASC/PK buying community (including staff and support) and "top management" refers to the ASC/PK executive staff (e.g., PK front office). Also, knowledge sharing initiatives are projects that make it easier and/or faster to share knowledge throughout the organization. Hypothetically speaking, such initiatives might include the following:

- 1) Web-based "yellow pages" that list points of contact throughout PK (including the co-located SPO individuals) for various topics;
- 2) Computer software and hardware that allows multiple individuals (regardless of geographic location) to collaborate real-time (i.e. web cams and video conferencing capability at each desktop);
- 3) Extensive digital knowledge libraries that capture best practices in written, audio, and video formats (i.e. web-accessible video interviews with retiring personnel who have extensive experience in certain processes);
- 4) Monetary award incentives for sharing knowledge with others; and/or
- 5) Job performance standards based on knowledge sharing.

Such initiatives may be mandated by management levels above ASC/PK and may be implemented over multiple organizations besides just ASC/PK.

The following scale consists of a number of paired words that measure the meaning of the changes to you personally. Please read each pair of words and indicate your general feelings toward such knowledge sharing changes as they pertain to that particular pair of words. The scale is a spectrum with the middle being neutral and your feelings getting stronger as you move farther out toward each word. Use the following scale to indicate your answers. For example, if you believe such changes are extremely foolish, you would mark the "1" in the row with the spectrum "Foolish" to "Wise."

1	2	3	(	4	(5)	(	<u></u>	7
Extremely	Moderately	A litt	le Ne	utral	A little	Mode	rately	Extremely
Good	1	2	3	4	(5)	6	7	Bad
Progressive		2	3	4	(5)	6	7	Regressive
Foolish	1	2	3	4	(5)	6	7	Wise
Ineffective	1	2	3	4	(5)	6	7	Effective
Worthless	1	2	3	4	(5)	6	$\bigcirc$	Valuable
Positive	1	2	3	4	(5)	6	7	Negative

In this next sub-section, answer each of the following statements by filling in the circle for the number that indicates the extent to which you agree that the statement is true. Please note that this is a different measurement scale from the preceding sub-section.

(1	D	2	3	4	5		6			7		
Stro Disa		Disagree	Slightly Disagree	Neither Agree or Disagree	Slightly Agree		A	gree			rongly Agree	y
1.		•	nit is committed ange efforts a s	d to making such	1	1	2	3	4	(5)	6	7
2.	I have r	no choice but t	o go along with	such changes.		1	2	3	4	(5)	6	7
3.		nowledge shar n part of the "to		ke it easier for n	ne to feel	1	2	3	4	(5)	6	7
4.		•	-	on such changes m implemented.		1	2	3	4	(5)	6	7
5.	I believ	e in the value	of such knowle	dge sharing char	nges.	1	2	3	4	(5)	6	7
6.		ne we would sping else.	pend on such ch	nanges should be	spent on	1	2	3	4	(5)	6	7
7.	Things changes		er without such	knowledge shar	ing	1	2	3	4	(5)	6	7
8.		that the organi e knowledge s		efit from change	s that	1	2	3	4	(5)	6	7
9.			make me confic after such chan	lent that I will be ges are made.	e able to	1	2	3	4	(5)	6	7
10.			p decision-mak change efforts.	ers have put all t	their	1	2	3	4	(5)	6	7
11.				g changes will d have developed.	isrupt	1	2	3	4	(5)	6	7
12.		ation adopts c		nwhile for me if I improve knowl		1	2	3	4	(5)	6	7
13.		nanges give me k is done.	e the ability to 1	make decisions a	bout how	1	2	3	4	(5)	6	7
14.	Resistir option t	•	edge sharing ch	nanges is not a vi	able	1	2	3	4	(5)	6	7
15.	I have t	oo much at sta	ake to resist suc	h changes.		1	2	3	4	(5)	6	7
16.	Change easier.	es that improve	knowledge sha	aring will make	my job	1	2	3	4	(5)	6	7
17.		formation I recand the change		ch changes helpe	d me	1	2	3	4	(5)	6	7
18.	I feel an sharing	vledge	1	2	3	4	(5)	6	7			

(1	2	3	4	(5)			6			7	
Stro	ngly Disagree	Slightly	Neither	Slightly		A	gree		St	rongl	y
Disa	gree	Disagree	Agree or Disagree	Agree					A	Agree	
19.	I am worried I will lo when such changes a	-	_	anization	1	2	3	4	(5)	6	7
20.	I would feel guilty al changes.	oout opposing su	uch knowledge s	sharing	1	2	3	4	(5)	6	7
21.	The information I recanswered my question		ch changes has a	dequately	1	2	3	4	(5)	6	7
22.	Attempts to make the good results.	ings better arour	nd here will not	produce	1	2	3	4	(5)	6	7
23.	Every senior manage that will improve known			changes	1	2	3	4	3	6	7
24.	When we implement can handle it with ea		e sharing change	es, I feel I	1	2	3	4	(5)	6	7
25.	After such changes, work I do.	I expect to be re	cognized more f	for the	1	2	3	4	3	6	7
26.	Changes that improvorganization's overa		aring will impro	ve our	1	2	3	4	(5)	6	7
27.	I have some control will be proposed.	over the knowle	dge sharing char	nges that	1	2	3	4	(5)	6	7
28.	My peers have suppoeffort.	orted such a kno	wledge sharing	change	1	2	3	4	(5)	6	7
29.	I am able to ask ques	tions about this	change.		1	2	3	4	(5)	6	7
30.	I feel a sense of duty	to work toward	such changes.		1	2	3	4	(5)	6	7
31.	I feel pressure to go	along with such	changes.		1	2	3	4	(5)	6	7
32.	I think that managem such changes.	nent is making a	mistake by intro	oducing	1	2	3	4	(5)	6	7
33.	It would be risky to s	speak out agains	t such changes.		1	2	3	4	(5)	6	(7
34.	Our senior leaders hat changes that will imp			race	1	2	3	4	(5)	6	7
35.	Changes that will im priorities of our orga		ge sharing match	the	1	2	3	4	(5)	6	7
36.	Management has sen going to make chang				1	2	3	4	(5)	6	7
37.	There are legitimate improve knowledge		make changes	that will	1	2	3	4	(5)	6	7

(	① ② ③ ④		4	(5)			6			7		
Stro	ongly	Disagree	Slightly	Neither	Slightly		A	gree		St	rongl	y
Disa	igree		Disagree	Agree or Disagree	Agree					A	Agree	
38.	This c	-	nost senior lead	er is committed	to such	1	2	3	4	(5)	6	7
39.		ot think it would ledge sharing ch		e to oppose such		1	2	3	4	(5)	6	7
40.	Such	knowledge shar	purpose.	1	2	3	4	(5)	6	7		
41.		I set my mind to red when such c		everything that oted.	will be	1	2	3	4	(5)	6	7
42.	Such	changes are not	necessary.			1	2	3	4	(5)	6	7
43.		are some tasks think I can do v		uired when we	change I	1	2	3	4	(5)	6	7
44.		e the skills that a		ake such knowle	edge	1	2	3	4	(5)	6	7
45.	It wou	ald be too costly	for me to resis	t such changes.		1	2	3	4	(5)	6	7
46.		knowledge shar ization.	ing changes are	a good strategy	for this	1	2	3	4	(5)	6	7
47.	There made		f rational reaso	ns for such chan	ges to be	1	2	3	4	(5)	6	7
48.				sting to the wor		1	2	3	4	(5)	6	7
49.		sn't make much ve knowledge s		initiate changes	that will	1	2	3	4	(5)	6	7
50.	My fu	iture in this job	will be limited	because of such	changes.	1	2	3	4	(5)	6	7
51.		nformation I rec ses was timely.	eived about suc	ch knowledge sh	aring	1	2	3	4	(5)	6	7
52.	The tl	nought of such o	changes worries	me.		1	2	3	4	(5)	6	7
53.	I wou	ld not feel badly	y about opposin	g such changes.		1	2	3	4	(5)	6	7
54.		changes that in mented, I don't		lge sharing are anything for mo	e to gain.	1	2	3	4	(5)	6	7
55.	I am a	able to participa	te in the implen	nentation of sucl	n changes.	1	2	3	4	(5)	6	7
56.	Right now, I am somewhat resistant to such knowledge sharing changes.					1	2	3	4	(5)	6	7
57.	It wou	uld be irrespons	ible of me to re	sist such change	S.	1	2	3	4	(5)	6	7
58.	I do n	ot feel any oblig	gation to suppor	rt such changes.		1	2	3	4	(5)	6	7

## PART II ATTITUDES TOWARD ASC/PK AND YOUR JOB

We would like to understand how you generally feel about ASC/PK and your job. The following questions will help us do that. You should answer each statement by filling in the circle for the number that indicates the extent to which you agree that the statement is true.

(1	<u></u>	2	3	4	⑤			6				
Stro	ongly	Disagree	Slightly	Neither	Slightly		A	gree		St	rongl	$\mathbf{y}$
Disa	gree		Disagree	Agree or Disagree	Agree					A	gree	
59.		of the programs	* *	sed to solve pro	blems	1	2	3	4	(5)	6	7
60.	I am s	eriously thinkin	ig about quittin	g my job.		1	2	3	4	(5)	6	7
61.	Plans	for future impro	ıch.	1	2	3	4	(5)	6	7		
62.	In gen	In general, I like working here.							4	(5)	6	7
63.		ant to, I can hav our future prog		decisions being	g made	1	2	3	4	(5)	6	7
64.		rganization is w m my job to the	_	l itself in order tility.	to help me	1	2	3	4	(5)	6	7
65.	All in	all, I am satisfi	ed with my job			1	2	3	4	(5)	6	7
66.	There activit		for ASC/PK to	change our bus	iness	1	2	3	4	(5)	6	7
67.	Sugge real ch		o solve problen	ns will not prod	uce much	1	2	3	4	(5)	6	7
68.		if I did the best ice me.	job possible, th	e organization	would fail	1	2	3	4	(5)	6	7
69.	In gen	eral, I don't lik	e my job.			1	2	3	4	(5)	6	7
70.	As soc	on as I can find	a better job, I'l	l leave ASC/PK		1	2	3	4	(5)	6	7
71.	The or	rganization take	s pride in my a	ccomplishment	S.	1	2	3	4	(5)	6	7
72.		eople who knov information wit		on within ASC/	PK do not	1	2	3	4	(5)	6	7
73.	I feel l		tells me anyth	ing about what'	s going on	1	2	3	4	(5)	6	7
74.	The or	rganization real	ly cares about r	my well-being.		1	2	3	4	(5)	6	7
75.	I am a	ctively looking	for a job outsic	de of ASC/PK.		1	2	3	4	(5)	6	7

(	D	2	3	4	(5)		(	6			7	
Stro	ngly	Disagree	Slightly	Neither	Slightly		A	gree		St	rongl	y
Disa	igree		Disagree	Agree or Disagree	Agree					A	gree	
76.	The o	rganization care	s about my gen	eral satisfaction	at work.	1	2	3	4	(5)	6	7
77.	I often	n think about qu	itting my job at	ASC/PK.		1	2	3	4	(5)	6	7
78.	- 1	erformance wou nation about wh				1	2	3	4	(5)	6	7
79.	There	is a clear vision	guiding ASC/	PK.		1	2	3	4	(5)	6	7
80.	The o	rganization show	ws very little co	oncern for me.		1	2	3	4	(5)	6	7
81.		horoughly satist s going on withi			ive about	1	2	3	4	3	6	7
82.	Our o	rganization has	problems that n	need to be addre	ssed.	1	2	3	4	(5)	6	7

## PART III ATTITUDES ABOUT YOURSELF

We would like to understand how you feel about change in general. The following questions will help us do that. You should answer each statement by filling in the circle for the number that indicates the extent to which you agree that the statement is true.

(3	<u> </u>	<u> </u>	<u> </u>		<u></u>		6			(7)						
(1	Ŋ	2	3	4	(5)		(	6			7					
Stro	ngly	Disagree	Slightly	Neither	Slightly		A	Agree		Agree		Agree		St	rongl	y
Disa	igree		Disagree	Agree or Disagree	Agree					A	gree					
83.		eluctant about a em working for			ings until I	1	2	3	4	(5)	6	7				
84.	I often	n find myself sko	eptical of new i	deas.		1	2	3	4	(5)	6	7				
85.		ly trust new idea ity of people arc			ast	1	2	3	4	(5)	6	7				
86.	I am o	challenged by an	nbiguities and u	unsolved proble	ems.	1	2	3	4	(5)	6	7				
87.	I tend best v	to feel that the d	old way of livin	ng and doing th	ings is the	1	2	3	4	3	6	7				
88.	I am g	generally cautiou	is about accept	ing new ideas.		1	2	3	4	(5)	6	7				
89.		t see other peopl der them.	e using new in	novations before	re I will	1	2	3	4	3	6	7				

1)	2	3	4	(5)		(	6	7		7	
Strongly Disagree	Disagree	Slightly Disagree	Neither Agree or Disagree	Slightly Agree		Ag	gree			rongl Agree	•
90. I am a	90. I am aware that I am usually one of the last people in my							4	(5)	6	7

90. I am aware that I am usually one of the last people in my group to accept something new.

In this sub-section, the following scale consists of a number of words that describe different feelings and emotions. Please read each item and then fill in the circle that best reflects the way you generally feel, that is, how you feel on average concerning changes in general. Use the following scale to indicate your answers.

	① Very slightly Or not at all		ittle		3 4 erately Quite a bit	⑤ Extremely	
Interested	1	2 3	4	(5)	Irritable	1 2	3 4 5
Distressed	1	2 3	4	(5)	Alert	1 2	3 4 5
Excited	1	2 3	4	(5)	Ashamed	1 2	3 4 5
Upset	1	2 3	4	(5)	Inspired	1 2	3 4 5
Strong	1	2 3	4	(5)	Nervous	1 2	3 4 5
Guilty	1	2 3	4	(5)	Determined	① ②	3 4 5
Scared	1	2 3	4	(5)	Attentive	1 2	3 4 5
Hostile	1	2 3	4	(5)	Jittery	1 2	3 4 5
Enthusiastic	1	2 3	4	(5)	Active	1 2	3 4 5
Proud	1	23	4	(5)	Afraid	1 2	3 4 5

## PART IV BACKGROUND INFORMATION

This final section contains items regarding your personal characteristics. These items are very important for statistical purposes. Respond to each item by WRITING IN THE INFORMATION requested or CHECKING THE BOX ☑ that best describes you.

1.	Describe your primary career pricer, clerk, staff, etc.)?			
2.	Are you a supervisor?	Yes (How many people do No	you supervise?	)
3.	How many levels of manage	ement separate you from ASO	C/PK's Director?	
4.	How long have you worked f	for ASC/PK? years	months	
5.	How long have you been in y	our current ASC/PK job? _	years	months
6.	How many years are you from	m retirement (estimated)? _		
7.	Please indicate the highest le Some High School High School Diploma Associate's degree Bachelor's degree Master's degree Doctorate degree Other (please specify)	·	e attained.	
8.	What is your age?	years		
9.	What is your gender?			
	Male	Female		
10	. Are you currently civilian o	r military?		
	Civilian - Prior mili	tary? (Yes or No)		
	Military – Rank			

PLEASE FEEL FREE TO MAKE ANY ADDITIONAL COMMENTS ABOUT KNOWLEDGE SHARING & OTHER CHANGES ON THE BACK OF THESE PAGES

Thank you for your participation!

## Appendix C – Raw Data Collected From Survey

## **Change Content – Semantic Differential Scale**

CodeID	Good2Bad [R]	Progressive2Regressive [R]	Foolish2Wise	Ineffective2Effective	Worthless2Valuable	Positive2Negative [R]
ID	CCVsd	CCVsd	CCVsd	CCVsd	CCVsd	CCVsd
EN90ER11	4	5	5	5	5	5
ER58ON01						
MS41EY07	2	2	5	5	4	4
LE24SO01	2	2	6	5	5	3
ER00EN11						
LL91TH12						
ER15AN02						
LE23ER11	1	2	7	6	6	2
ME19ES05			•			_
DS55RN04	2	2	6	6	6	2
ER55CE03	1	2	6	6	6	1
FT69ER02	1	2	7	6	6	1
AR29LE03		_	•			
WI57KE01	4	4	4	4	4	4
LL61KE12	-	-	-			-
AR46RN06	2	2	4	6	6	2
LY92ER09	2	1	6	6	6	2
TH01IN02	2	2	6	6	6	2
1110111102						_
NN02IS09	2	2	3	3	5	3
	2	1	6	5	6	2
NS39MS03	1	1	7	7	7	1
ER03ON10	2	2	7	6	2	5
ER10ER02	2	2	6	6	2	6
OD16TT11						
TH49GE01	1	1	1	4	2	1
BA17TT10	4	1	3	4	5	5
MA41AD07		-				
TH35ER05	2	2	6	4	6	2
LE68ER11	2	2	6	4	4	2
HU26TS06	2	2	6	4	6	2
IS42IS10						
	2	2	7	6	6	1

CodeID	Good2Bad [R]	Progressive2Regressive [R]	Foolish2Wise	Ineffective2Effective	Worthless2Valuable	Positive2Negative [R]
ER97ST11	2	2	7	6	6	2
ON63NS02						
PP41IS05	2	3	4	5	5	2
MI63EN02	2	2	6	4	2	2
NG420N04	2	2	6	5	6	2
VE84EL05	4	5	4	1	4	4
RT07ER09						
RY26ON05	2	2	6	4	5	6
EY27EP02						
MS62LD08	1	1	7	7	7	1
NE45US03	1	1	7	7	7	1
ER35ER05	2	2	6	6	6	2
RY16AU12	4	3	4	4	5	3
JO54EN02						
WE48RK08						
RS27RT01						
GH95OR12						
TT20LA06						
AN34CE07	1	2				
AN46TT10						
EY51HI09	2	2	5	6	6	2
WO80CH01	1	1	7	6	6	1
UM37ER11	6	6	3	1	1	6
IS75ER06	2	3	6	5	5	6
BB30ER04	4	4	4	6	7	4
AN33LT07	1	1	7	6	6	1
CM01ON01	1	1	7	7	7	1
NS30CK08	2	2	6	5	6	2
EU12ER02	2	2	7	6	6	6
SU77EE03	1	1	7	3	7	1
ER50ER07						
LS58IZ08	4	4	4	3	3	4
RO53KI08						
RE46CK09	3	2	6	6	5	7
AD38ER10	2	2	4	4	4	2

CodeID	Good2Bad [R]	Progressive2Regressive [R]	Foolish2Wise	Ineffective2Effective	Worthless2Valuable	Positive2Negative [R]
DA22NK05	2	2	5	5	5	3
KR04EN04	4	3	6	5	7	1
RA20GR06	1	1	7	6	7	1
ZE56CE11	6	5	6	6	6	5
AN97RT07	1	1	7	7	7	1
JU46TT10	4	2	5	5	5	2
LS99LL07	1	1	7	7	7	1
NS46ND09	1	2	7	7	7	1
KI89ER12	1	2	7	7	7	2
AK12KY07	1	1	4	6	6	2
WN97AN05	2	2	6	6	6	2
ON89EL11	4	4	4	4	4	4
BA31DR12	2	3	6	5	5	2
ER14NS11	1	1	7	7	7	1
OR23ER03	2	2	4	4	4	2
IN14CH07	2	2	7	2	7	2
BS61ER02	2	2	6	6	7	1
LK46LK03	1	2	6	6	6	3
CE46RA09	2	2	5	3	5	3
TH79TH08	4	4	4	4	4	4
WN45ER12	5	5	3	1	2	6
RO69NO12	4	4	4	4	4	4
HA27HU11	1	1	7	7	7	1
FF85RY01	2	2	7	6	6	2
LL07GE07	2	1	6	6	6	2
NR50KR05	1	1	7	7	7	1
OP51BS10	1	1	7	6	7	2
ER43ER01	6	6	2	2	2	6
ER03ER07	2	2	6	7	7	2
SI58GH05	2	2	6	4	4	4
ST39LL06	1	1	7	7	7	1
NZ61EZ06	2	1	6	6	7	1
IS91LE03	1	1	7	7	7	1
ER46CK07	1	3	5	5	5	2
TH95TE11	2	2	6	6	6	2
CE30RY07	2	1	7	6	6	5
PP76ER09	1	3	3	3	3	3
ON53TE11	4	4	4	4	4	4

CodeID	Good2Bad [R]	Progressive2Regressive [R]	Foolish2Wise	Ineffective2Effective	Worthless2Valuable	Positive2Negative [R]
EN59BE01	2	3	5	6	5	2
TH39IS04	1	1	7	7	7	1
TO72KE09	3	3	3	4	4	4
NE37TZ10	2	4	5	6	6	2
ES96RS09	2	2	4	6	6	2
KI89PA01	2	2	6	6	6	2
RI92EN11	1	1	7	7	7	1
JO39HL10	2	3	6	6	6	2
SI07CI08	3	4	5	4	3	5 2
OX89MS10 YD68TH09	2	1	6	6	6 7	1
BA31AN08	2	5	5	6	6	2
ST89AM11	4	4	4	4	4	4
MS62LD08	1	1	7	7	7	1
IS08TS05	1	1	7	7	7	1
AN67AL11	1	1	6	6	6	2
ER35ER05	1	1	7	6	7	1
SH02EY04	2	2	6	6	6	2
LY13IN09	4	3	3	5	6	7
RU43BU02	3	4	3	3	5	4
EM58ER09	1	1	6	6	7	2
AN70TH03	2	2	6	6	6	2
OX59LL12	2	2	4	4	4	2
ER82SH04	2	3	6	5	5	2
US22RD02	4	3	4	6	4	3
RS94SH05	2	2	6	4	6	2
US59ER11	3	3	5	6	5	2
BO20LL09	1	1	1	1	1	1
ER53LL10	1 4	2	5 4	6	6	2
KL02US10 RL49LS06	2	2	6	4	4	5
US67LL06	5	3	6	5	2	5
OW56RE12	1	1	7	7	7	1
RS27RT01	2	2	7	6	6	2
EK59OD06	2	3	6	5	5	2
ER03ER10	1	1	6	6	7	1
HA07ER09	4	4	4	4	4	4

### **Change Content – Appropriateness**

	Q6								Q49	Q54
CodeID	[R]	Q8	Q12	Q16	Q26	Q35	Q37	Q47	(R)	[R]
EN90ER11	2	6	6	5	6	6	6	6	4	2
ER58ON01	2	6	6	6	6	6	6	6	1	2
MS41EY07	4	5	5	2	2	4	7	6	3	2
LE24SO01	3	6	6	5	5	6	5	5	2	2
ER00EN11	4	5	2	5	4	4	5	5	3	5
LL91TH12	3	6	5	5	4	4	5	5	2	3
ER15AN02	4	6	3	5	6	3	4	3	3	4
LE23ER11	2	6	6	2	6	2	6	6	2	3
ME19ES05	3	6	7	6	6	5	5	6	2	3
DS55RN04	2	6	6	6	6	4	6	6	3	3
ER55CE03	2	6	6	3	6	5	6	6	2	2
FT69ER02	2	6	6	7	7	6	6	6	2	2
AR29LE03	2	6	4	6	3	3	5	5	3	3
WI57KE01	3	6	5	4	4	5	4	4	4	4
LL61KE12	3	5	5	5	5	5	5	4	4	3
AR46RN06	3	6	6	6	5	4	6	6	2	1
LY92ER09	4	5	6	6	5	6	5	5	2	5
TH01IN02	1	6	6	6	6	4	6	6	2	2
	6	5	5	5	5	3	4	4	4	4
NN02IS09	4	5	5	5	5	4	6	4	3	3
	2	5	5	6	5	5	5	6	2	2
NS39MS03	1	6	7	7	5	4	7	7	1	2
ER03ON10	3	6	6	5	5	5	6	6	2	2
ER10ER02	3	6	7	6	6	3	6	6	1	3
OD16TT11	5	6	6	6	6	6	6	6	2	2
TH49GE01	4	4	6	6	6	4	5	4	3	3
BA17TT10	3	6	7	6	5	5	5	5	2	5
MA41AD07	4	6	6	6	6	5	6	6	2	2
TH35ER05	3	6	6	5	5	4	5	4	3	3
LE68ER11	4	5	5	6	7	4	5	3	1	
HU26TS06	3	6	6	6	6	6	5	6	2	2
IS42IS10	4	6	6	4	4	4	6	4	4	2
	3	6	6	6	6	5	5	5	2	3
ER97ST11	2	7	7	6	6	6	7	6	2	6
ON63NS02	2	6	6	5	5	4	4	4	4	4
PP41IS05	4	6	6	6	5	6	6	6	3	3
MI63EN02	2	6	6	5	6	5	5	6	1	2
NG420N04	2	6	7	6	7	6	7	6	2	2
VE84EL05	3	4	5	6	5	4	5	5	4	4
RT07ER09	2	6	7	5	6	5	6	6	2	2
RY26ON05	4	6	6	5	5	4	7	6	2	2
EY27EP02	3	5	6	5	5	4	4	5	3	4
MS62LD08	2	7	7	7	7	7	7	7	1	1

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RY16AU12	4	4	4	5	5	4	4	5	4	4
JO54EN02	3	5	5	4	4	5	4	4	3	3
WE48RK08	1	7	6	7	7	6	6	7	2	2
	6	6	6	5	5	4	4	4	3	4
RS27RT01	2	6	7	7	6	3	6	6	1	1
GH95OR12	2	7	6	5	5	5	6	6	2	2
TT20LA06	3	5	5	5	5	6	6	5	2	3
AN34CE07	5	6	6	7	6	6	7	7	1	3
	4	6	6	4	6	4	4	4	3	3
AN46TT10	2	6	7	7	4	4	6	4	2	2
EY51HI09	3	6	6	6	4	6	6	5	2	3
WO80CH01	5	5	5	5	4	4	4	4	4	3
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UM37ER11	6	5	4	1	1	1	3	2	2	6
IS75ER06	3	6	6	6	6	6	6	6	2	2
BB30ER04	4	6	6	6	4	6	7	6	2	2
AN33LT07	2	6	6	6	6	6	6	6	2	2
CM01ON01	3	6	6	6	6	6	7	6	2	2
NS30CK08	4	6	5	5	6	4	5	5	3	3
EU12ER02	2	6	6	6	6	4	6	6	2	2
SU77EE03	1	7	7	7	5	3	6	7	1	1
ER50ER07	3	7	6	5	3	4	4	4	2	2
LS58IZ08	6	5	6	3	4	4	4	3	3	2
RO53KI08	1	7	7	7	7	1	7	7	4	1
RE46CK09	1	6	6	6	5	3	6			
AD38ER10				_						
DA22NK05	5	4	3	5	1	5	6	7	7	3
KR04EN04	1	7	7	7	6	6	6	6	1	1
RA20GR06	2	6	6	6	6	6	6	6	2	3
ZE56CE11	4	-		4						
AN97RT07	4	6	6	4	6	4	6		-	-
JU46TT10	2	5	6	5	6	4	5	5	2	3
LS99LL07	1	7	7	7	7	7	7	7	1	1
NS46ND09	2	7	7	7	7	5	7	7	1	1
KI89ER12	3	7	7	7	7	7	7	7	2	2
AK12KY07	4	5	5	4	4	4	4	5	4	5
WN97AN05										
ON89EL11										
BA31DR12			7							
ER14NS11	2	6	7	6						
OR23ER03			_		•		•		•	•
IN14CH07	2	6	5	5	6	5	6	6	2	2
BS61ER02										

Code D   Code D   Code											
COGID   R  Q8		Q6								Q49	Q54
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WN45ER12	CE46RA09	3	5	6	5	5	4	5	6	3	3
RO69NO12	TH79TH08	3	6	6	7	6	2	6	6	2	2
HA27HU11	WN45ER12	7	1	1	1	1	1	3	1	4	7
FF85RY01	RO69NO12										
LL07GE07	HA27HU11	1	7	7	7	7	7	7	7	1	1
NR50KR05	FF85RY01	2	6	6	5	5	5	5	6	2	5
OP51BS10	LL07GE07	2	6	6	6	5	3	4	6	2	2
ER43ER01 6 4 5 2 1 3 4 2 4 4 ER03ER07 SI58GH05 ST39LL06 1 6 7 7 7 4 7 7 1 1 NZ61EZ06 2 6 6 6 6 5 6 6 2 2 IS91LE03 1 7 7 7 7 7 7 7 7 7 1 1 ER46CK07 6 5 5 5 2 1 4 6 5 5 2 6 TH95TE11 3 6 6 6 6 5 4 5 6 3 3 CE30RY07 2 7 7 7 7 7 6 6 6 1 2 PP76ER09 5 4 3 3 3 ON53TE11 EN59BE01 6 5 5 5 5 TH39IS04 4 6 6 6 6 6 4 4 4 NE37TZ10 3 6 5 6 6 4 5 5 5 4 3 4 NE37TZ10 3 6 5 6 4 5 5 5 7 4 4 ES96RS09 KIB9PA01 4 5 5 5 6 7 5 5 5 5 2 2 YD68TH09 2 7 7 7 7 6 6 7 7 1 1 JO39HL10 SI07CI08 OX89MS10 2 6 7 7 6 5 5 5 6 6 2 2 ST89AM11 MS62LD08 2 7 7 7 7 7 7 7 7 6 2 2 ST89AM11 MS62LD08 2 7 7 7 7 7 7 7 7 6 2 2 ST89AM11 MS62LD08 2 7 7 7 7 7 7 7 7 6 2 2 SH02EY04 3 5 5 6 6 6 6 6 6 6 6 6 2 ER35ER05 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 1 2 ST89AM11 MS62LD08 2 7 7 7 7 7 7 7 7 7 7 6 2 2 SH02EY04 3 5 5 6 6 6 6 6 6 6 6 6 6 6 2 2 SH02EY04 3 5 5 5 5 4 4 5 5 5 6 6 6 2 2 SH02EY04 3 5 5 5 5 4 4 5 5 5 6 6 6 2 2 SH02EY04 3 5 5 5 5 4 4 5 5 5 4 3 LY13IN09 4 5 6 6 6 6 7 4 6 6 6 6 6 6 6 6 7 4 6 6 1 1 OX59LL12 2 5 5 5 6 6 5 6 4 6 6 6 6 1 1 OX59LL12 2 5 5 5 6 6 5 6 6 6 6 6 6 6 1 1 OX59LL12 2 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	NR50KR05	2	7	7	7						
ER03ER07   SI58GH05   ST39LL06	OP51BS10										
SI58GH05   ST39LL06	ER43ER01	6	4	5	2	1	3	4	2	4	4
ST39LL06	ER03ER07										
NZ61EZ06	SI58GH05										
NZ61EZ06	ST39LL06	1	6	7	7	7	4	7	7	1	1
IS91LE03		2		6	6	6		6	6	2	2
TH95TE11 3 6 6 6 6 5 4 5 6 3 3 3 CE30RY07 2 7 7 7 7 7 6 6 6 6 1 2 PP76ER09 5 4 3 3 3 ON53TE11 EN59BE01 6 5 5 5 5 TH39ISO4 4 6 6 6 6 6 6 4 4 4 NE37TZ10 3 6 5 6 6 6 6 4 5 5 5 7 4 4 4 ES96RS09 KI89PA01 4 5 5 6 6 7 5 5 5 5 2 2 RI92EN11 1 7 7 7 7 7 6 7 6 7 1 1 1 JO39HL10 SI07CI08 OX89MS10 2 6 7 7 6 5 7 5 5 6 2 2 BA31AN08 2 5 6 5 6 5 6 6 6 6 6 6 1 2 ST89AM11 MS62LD08 2 7 7 7 7 7 7 7 7 6 2 2 IS08TS05 2 6 6 6 6 6 6 6 6 6 2 2 AN67AL11 3 5 6 6 6 6 6 6 6 6 6 6 6 7 4 6 4 7 3 LY13IN09 4 5 6 6 6 7 4 6 7 7 4 6 7 7 RU43BU02 6 5 4 4 5 5 5 4 3 EM58ER09 2 6 6 6 6 6 6 6 6 6 6 6 7 4 6 7 7 7 7 7 7	IS91LE03	1	7	7	7	7	7	7	7	1	1
TH95TE11	ER46CK07	6	5	5	2	1	4	6	5	2	6
CE30RY07	TH95TE11	3	6	6	6	5	4	5	6	3	
ON53TE11         6         5         5         5           TH39IS04         4         6         6         6         6         4         4           TO72KE09         3         5         4         5         4         5         5         4         3         4           NE37TZ10         3         6         5         6         4         5         5         7         4         4           ES96RS09         KI89PA01         4         5         5         6         7         5         5         5         2         2           R192EN11         1         7         7         7         7         6         7         7         1         1           JO39HL10         S107C108         S107C108 <t< td=""><td>CE30RY07</td><td></td><td>7</td><td>7</td><td>7</td><td>7</td><td>6</td><td>6</td><td>6</td><td>1</td><td></td></t<>	CE30RY07		7	7	7	7	6	6	6	1	
ON53TE11         EN59BE01         6         5         5         5         5         5         1	PP76ER09	5	4	3	3						
TH39IS04											
TO72KE09 3 5 4 5 4 5 5 4 3 4  NE37TZ10 3 6 5 6 4 5 5 7 4 4  ES96RS09	EN59BE01	6	5	5	5						
TO72KE09 3 5 4 5 4 5 5 4 3 4  NE37TZ10 3 6 5 6 4 5 5 7 4 4  ES96RS09	TH39IS04	4	6	6	6	6	4	4			
NE37TZ10         3         6         5         6         4         5         5         7         4         4           ES96RS09         8         8         8         8         8         8         8         8         8         8         8         8         8         8         9         8         9         8         9         1         1         1         1         7         7         7         7         7         7         7         1         2         2         2         2	-			4					4	3	4
KI89PA01         4         5         5         6         7         5         5         2         2           RI92EN11         1         7         7         7         7         6         7         7         1         1           JO39HL10         SI07CI08         SI07CI08 <td></td> <td>3</td> <td>6</td> <td>5</td> <td>6</td> <td>4</td> <td>5</td> <td>5</td> <td>7</td> <td>4</td> <td>4</td>		3	6	5	6	4	5	5	7	4	4
RI92EN11 1 7 7 7 7 7 6 7 7 1 1  JO39HL10  SI07CI08  OX89MS10 2 6 7 7 6 5 7 5 2 2  YD68TH09 2 7 7 5 7 5 6 6 2 2  BA31AN08 2 5 6 5 5 6 6 6 1 2  ST89AM11  MS62LD08 2 7 7 7 7 7 7 7 7 6 2 2  IS08TS05 2 5 7 6 5 5 6 6 2 2  AN67AL11 3 5 6 6 6 5 4 5 5 2 4  ER35ER05 2 6 6 6 6 6 6 6 6 6 6 2 2  SH02EY04 3 5 5 5 5 4 4 5 5 4 3  LY13IN09 4 5 6 6 7 4 6 4 4 2  RU43BU02 6 5 4 4 5 5 4 4 3 3  EM58ER09 2 6 6 6 6 6 6 6 6 6 6 6 1 1  OX59LL12 2 5 5 5 6 2 6 5 2 4	ES96RS09										
JO39HL10           SI07CI08         SI07CI08           OX89MS10         2         6         7         7         6         5         7         5         2         2           YD68TH09         2         7         7         5         7         5         5         6         2         2           BA31AN08         2         5         6         5         5         6         6         6         1         2           ST89AM11         MS62LD08         2         7         7         7         7         7         7         7         6         2         2           IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3	KI89PA01	4	5	5	6	7	5	5	5	2	2
SI07CI08         OX89MS10         2         6         7         7         6         5         7         5         2         2           YD68TH09         2         7         7         5         7         5         5         6         2         2           BA31AN08         2         5         6         5         5         6         6         1         2           ST89AM11         MS62LD08         2         7         7         7         7         7         7         6         2         2           IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3         3           LY13IN09         4         5         6	RI92EN11	1	7	7	7	7	6	7	7	1	1
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YD68TH09         2         7         7         5         7         5         6         2         2           BA31AN08         2         5         6         5         5         6         6         6         1         2           ST89AM11         MS62LD08         2         7         7         7         7         7         7         6         2         2           IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3           LY13IN09         4         5         6         6         7         4         6         4         4         2           RV43BU02         6         5         4         4         5         5 </td <td>SI07CI08</td> <td></td>	SI07CI08										
YD68TH09         2         7         7         5         7         5         6         2         2           BA31AN08         2         5         6         5         5         6         6         6         1         2           ST89AM11         MS62LD08         2         7         7         7         7         7         7         6         2         2           IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3           LY13IN09         4         5         6         6         7         4         6         4         4         2           RV43BU02         6         5         4         4         5         5 </td <td>OX89MS10</td> <td>2</td> <td>6</td> <td>7</td> <td>7</td> <td>6</td> <td>5</td> <td>7</td> <td>5</td> <td>2</td> <td>2</td>	OX89MS10	2	6	7	7	6	5	7	5	2	2
ST89AM11       MS62LD08       2       7       7       7       7       7       7       6       2       2         IS08TS05       2       5       7       6       5       5       6       6       2       2         AN67AL11       3       5       6       6       5       4       5       5       2       4         ER35ER05       2       6       6       6       6       6       5       6       2       2         SH02EY04       3       5       5       5       4       4       5       5       4       3       3         LY13IN09       4       5       6       6       7       4       6       4       4       2         RU43BU02       6       5       4       4       5       5       4       4       3       3         EM58ER09       2       6       6       6       5       6       6       5       2       2         AN70TH03       2       6       6       5       6       4       6       6       1       1         OX59LL12       2       5 <td< td=""><td></td><td>2</td><td>7</td><td>7</td><td>5</td><td>7</td><td>5</td><td>5</td><td>6</td><td>2</td><td>2</td></td<>		2	7	7	5	7	5	5	6	2	2
MS62LD08         2         7         7         7         7         7         7         6         2         2           IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3           LY13IN09         4         5         6         6         7         4         6         4         4         2           RU43BU02         6         5         4         4         5         5         4         4         3         3           EM58ER09         2         6         6         6         5         6         6         5         2         2           AN70TH03         2         6         6         5         6         4         6 </td <td></td> <td>2</td> <td>5</td> <td>6</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>6</td> <td>1</td> <td>2</td>		2	5	6	5	5	6	6	6	1	2
IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3         3           LY13IN09         4         5         6         6         7         4         6         4         4         2           RU43BU02         6         5         4         4         5         5         4         4         3         3           EM58ER09         2         6         6         6         5         6         6         5         2         2           AN70TH03         2         6         6         5         6         4         6         6         1         1           OX59LL12         2         5         5         5         6         2 </td <td>ST89AM11</td> <td></td>	ST89AM11										
IS08TS05         2         5         7         6         5         5         6         6         2         2           AN67AL11         3         5         6         6         5         4         5         5         2         4           ER35ER05         2         6         6         6         6         6         5         6         2         2           SH02EY04         3         5         5         5         4         4         5         5         4         3         3           LY13IN09         4         5         6         6         7         4         6         4         4         2           RU43BU02         6         5         4         4         5         5         4         4         3         3           EM58ER09         2         6         6         6         5         6         6         5         2         2           AN70TH03         2         6         6         5         6         4         6         6         1         1           OX59LL12         2         5         5         5         6         2 </td <td>MS62LD08</td> <td>2</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>6</td> <td>2</td> <td>2</td>	MS62LD08	2	7	7	7	7	7	7	6	2	2
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ER35ER05       2       6       6       6       6       6       5       6       2       2         SH02EY04       3       5       5       5       4       4       5       5       4       3         LY13IN09       4       5       6       6       7       4       6       4       4       2         RU43BU02       6       5       4       4       5       5       4       4       3       3         EM58ER09       2       6       6       6       5       6       6       5       2       2         AN70TH03       2       6       6       5       6       4       6       6       1       1         OX59LL12       2       5       5       5       6       2       6       5       2       4											
SH02EY04     3     5     5     5     4     4     5     5     4     3       LY13IN09     4     5     6     6     7     4     6     4     4     2       RU43BU02     6     5     4     4     5     5     4     4     3     3       EM58ER09     2     6     6     6     5     6     6     5     2     2       AN70TH03     2     6     6     5     6     4     6     6     1     1       OX59LL12     2     5     5     5     6     2     6     5     2     4	-									2	
LY13IN09       4       5       6       6       7       4       6       4       4       2         RU43BU02       6       5       4       4       5       5       4       4       3       3         EM58ER09       2       6       6       6       5       6       6       5       2       2         AN70TH03       2       6       6       5       6       4       6       6       1       1         OX59LL12       2       5       5       5       6       2       6       5       2       4											
RU43BU02     6     5     4     4     5     5     4     4     3     3       EM58ER09     2     6     6     6     5     6     6     5     2     2       AN70TH03     2     6     6     5     6     4     6     6     1     1       OX59LL12     2     5     5     6     2     6     5     2     4											
EM58ER09     2     6     6     6     5     6     6     5     2     2       AN70TH03     2     6     6     5     6     4     6     6     1     1       OX59LL12     2     5     5     5     6     2     6     5     2     4						5					
AN70TH03         2         6         6         5         6         4         6         6         1         1           OX59LL12         2         5         5         5         6         2         6         5         2         4											
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US59ER11	3	6	5	5	5	5	5	5	2	2
BO20LL09	3	5	5	5	4	4	5	4	4	4
ER53LL10	2	7	6	6	6	4	6	6	1	2
KL02US10	5	6	5	6	5	5	5	5	3	3
RL49LS06	1	6	5	6	3	5	6	4	4	4
US67LL06										
OW56RE12	5	6	5	5	6	5	5	7	1	1
RS27RT01	1	7	6	7	6	6	7	6	1	1
EK59OD06										
ER03ER10	3	6	6	6	5	4	6	5	2	2
	2	6	6	6	6	6	6	6	2	2

## **Change Content – Personal Valence**

CodeID	Q3	Q11 [R]	Q13	Q19 [R]	Q25	Q50 [R]
EN90ER11	6	1	6	5	6	5
ER58ON01	5	1	5	2	4	1
MS41EY07	5	2	4	2	3	2
LE24SO01	5	2	5	2	2	2
ER00EN11	3	2	2	2	2	3
LL91TH12	5	4	5	4	2	4
ER15AN02	6	2	5	2	4	2
LE23ER11	4	4	4	4	2	4
ME19ES05	5	1	5	2	3	3
DS55RN04	4	2	4	2	4	2
ER55CE03	5	3	6	3	3	2
FT69ER02	7	2	6	2	4	2
AR29LE03	3	2	4	3	1	3
WI57KE01	3	4	4	3	2	4
LL61KE12	3	3	4	3	4	4
AR46RN06	4	4	4	2	4	2
LY92ER09	5	2	4	2	6	2
TH01IN02	5	2	6	1	4	2
	4	4	5	2	2	3
NN02IS09	6	5	5	1	2	3
	3	3	5	2	4	3
NS39MS03	7	1	7	1	2	1
ER03ON10	4	5	2	2	2	2
ER10ER02	6	1	7	1	2	1
OD16TT11	5	2	5	2	4	2
TH49GE01	4	2	6	4	4	4
BA17TT10	3	2	5	2	6	2
MA41AD07	3	2	5	2	4	3
TH35ER05	5	1	4	2	4	2
LE68ER11	4	2	4	4	4	4
HU26TS06	6	1	6	6	7	4
IS42IS10	6	2	5	2	4	4
ED070T44	5	2	4	2	4	2
ER97ST11	5	1	6	2	4	2
ON63NS02	5	2	6	2	4	4
PP41IS05	4	2	5	2	5	3
MI63EN02	6	3	5	2	4	2
NG420N04	4	3	5	3	5	2
VE84EL05	5	4	1	2	1	4
RT07ER09	7	2	5	2	4	2
RY26ON05	6	1	6	1	6	1
EY27EP02	3	5	2	2	2	4
MS62LD08	7	6	5	2	7	2
NE45US03	6	4	5	2	6	2

CodeID	Q3	Q11 [R]	Q13	Q19 [R]	Q25	Q50 [R]
ER35ER05	6	1	6	2	5	2
RY16AU12	4	5	4	3	4	4
JO54EN02	5	3	3	3	3	3
WE48RK08	6	2	5	1	4	2
	4	4	5	4	4	4
RS27RT01	6	2	7	1	6	1
GH95OR12	5	1	5	2	3	1
TT20LA06	4	2	5	1	4	2
AN34CE07	5	2	6	2	4	2
	6	2	4	2	4	3
AN46TT10	6	4	5	2	4	2
EY51HI09	3	6	5	2	4	2
WO80CH01	4	4	4	2	4	4
	4	4	6	1	4	4
UM37ER11	3	6	5	2	1	6
IS75ER06	5	2	5	2	4	1
BB30ER04	3	3	3	2	2	2
AN33LT07	5	2	4	2	5	2
CM01ON01	6	5	6	2	3	2
NS30CK08	3	2	2	7	5	3
EU12ER02	6	3	6	2	3	2
SU77EE03	5	3	7	1	3	1
ER50ER07	2	2	4	2	1	4
LS58IZ08	2	2	2	2	2	2
RO53KI08	7	1	7	1	1	4
RE46CK09	6	2	5	2	5	
AD38ER10		0		4	7	4
DA22NK05	2	3	3	1	7	1
KR04EN04 RA20GR06	6	7	6	1	3	1 2
ZE56CE11	0	3	0	ı	<u>ა</u>	
AN97RT07	7	3	4	4	4	
JU46TT10	2	2	4	2	4	2
LS99LL07	7	4	7	7	4	2
NS46ND09	6	2	6	1	5	7
KI89ER12	7	2	5	1	4	2
AK12KY07	5	3	5	3	5	3
WN97AN05	3	3	<u> </u>	3	<u> </u>	
ON89EL11						
BA31DR12						
ER14NS11	6	2	4	1		
OR23ER03	<u> </u>		т	'		
IN14CH07	5	4	3	1	2	2
BS61ER02		r		<u>'</u>		
LK46LK03	5	5	5	4	2	2
CE46RA09	4	3	5	2	4	3

CodeID	Q3	Q11 [R]	Q13	Q19 [R]	Q25	Q50 [R]
TH79TH08	6	2	3	1	6	2
WN45ER12	1	2	1	1	1	1
RO69NO12		_	-	-	-	
HA27HU11	7	1	6	1	4	1
FF85RY01	6	2	6	2	3	3
LL07GE07	4	2	6	2	3	2
NR50KR05	7	1	7	2		
OP51BS10						
ER43ER01	2	5	1	4	1	3
ER03ER07						
SI58GH05						
ST39LL06	6	4	7	1	4	1
NZ61EZ06	6	2	6	2	5	2
IS91LE03	6	1	7	1	5	1
ER46CK07	3	2	2	2	2	2
TH95TE11	5	3	5	5	3	4
CE30RY07	4	1	6	1	6	2
PP76ER09	4	4	3	4		
ON53TE11						
EN59BE01	2	2	4	2		
TH39IS04	4	2	4	2	5	
TO72KE09	4	4	4	4	4	3
NE37TZ10	3	4	4	1	4	4
ES96RS09						
KI89PA01	5	3	5	2	2	2
RI92EN11	5	1	7	1	3	1
JO39HL10						
SI07CI08						
OX89MS10	6	2	6	2	4	2
YD68TH09	7	2	5	2	2	2
BA31AN08	6	2	5	2	5	1
ST89AM11						
MS62LD08	6	2	7	2	4	2
IS08TS05	7	1	3	2	4	1
AN67AL11	6	2	6	3	5	4
ER35ER05	6	2	4	2	6	2
SH02EY04	2	4	3	3	3	4
LY13IN09	6	2	6	1	6	4
RU43BU02	5	2	4	1	3	2
EM58ER09 AN70TH03	6	1	<u>5</u> 5	3	3	2
OX59LL12	4	4	2	2	2	6
ER82SH04	5	2	4	3	5	3
US22RD02	4	3	5	3	4	3
RS94SH05	4	2	4	2	4	4
US59ER11	5	2	<del>_</del> 5	2	4	2
JOUGLICE	5	_			-7	

CodeID	Q3	Q11 [R]	Q13	Q19 [R]	Q25	Q50 [R]
BO20LL09	7	3	4	3	4	5
ER53LL10	6	2	4	1	2	6
KL02US10	6	3	5	2	2	2
RL49LS06	4	4	5	3	5	4
US67LL06						
OW56RE12	6	1	4	1	4	1
RS27RT01	6	1	5	1	5	1
EK59OD06						
ER03ER10	5	2	4	5	4	2
HA07ER09	6	2	6	2	5	2

**Process – Management Support** 

CodeID	Q4 [R]	Q23	Q34	Q36	Q38
EN90ER11	1	5	6	6	6
ER58ON01	1	6	6	6	7
MS41EY07	4	2	2	4	4
LE24SO01	4	2	2	2	4
ER00EN11	5	4	5	3	4
LL91TH12	2	3	5	5	6
ER15AN02	4	3	3	3	4
LE23ER11	4	4	4	4	4
ME19ES05	4	3	5	3	5
DS55RN04	2	3	3	4	5
ER55CE03	6	3	5	5	6
FT69ER02	2	5	6	5	6
AR29LE03	6	5	6	6	4
WI57KE01	4	5	5	5	6
LL61KE12	4	3	4	3	4
AR46RN06	4	4	4	4	4
LY92ER09	4	2	2	2	4
TH01IN02	2	5	5	4	5
	6	4	6	3	4
NN02IS09	2	2	4	2	4
	5	4	6	4	5
NS39MS03	3	1	1	1	4
ER03ON10	5	2	2	3	4
ER10ER02	2	5	5	5	6
OD16TT11	3	5	6	6	6
TH49GE01	6	2	3	3	4
BA17TT10	7	1	5	5	6
MA41AD07	3	4	5	5	6
TH35ER05	2	2	3	3	4
LE68ER11	4 2	2	4	4	4
HU26TS06		6	6	6	5 6
IS42IS10	4	4	5 4	4	5
ER97ST11	4	5	5	4	4
ON63NS02	3	4	<u> </u>	4	4
PP41IS05	5	5	5	5	5
MI63EN02	3	3	4	5	5
NG420N04	4	4	4	5	4
VE84EL05	4	1	1	1	4
RT07ER09	2	5	7	6	6
RY26ON05	4	4	5	5	6
EY27EP02	5	2	2	5	2
MS62LD08	2	7	7	6	7
NE45US03	5	5	5	5	6
ER35ER05	2	6	6	5	6

CodeID	Q4 [R]	Q23	Q34	Q36	Q38
RY16AU12	4	3	4	3	4
JO54EN02	3	3	4	4	4
WE48RK08	3	2	4	4	7
VVE40KK00	5	2	3	3	4
DC27DT01	4	4	6	1	7
RS27RT01 GH95OR12	2	4	6	4	4
TT20LA06	2	5	5	6	6
AN34CE07	4	4	6	5	6
ANIAOTTAO	2	2	2	2	4
AN46TT10	4	2	4	4	4
EY51HI09	3	5	5	5	5
WO80CH01	4	4	4	4	4
11110755044	4	2	2	2	4
UM37ER11	6	3	3	4	6
IS75ER06	3	5	6	6	6
BB30ER04	5	4	5	6	6
AN33LT07	5	4	4	6	4
CM01ON01	4	6	6	6	6
NS30CK08	6	5	3	2	3
EU12ER02	2	2	3	2	3
SU77EE03	7	5	5	3	6
ER50ER07	6	1	2	1	4
LS58IZ08	4	3	3	3	4
RO53KI08	4	4	4	1	1
RE46CK09	4	5	4	3	7
AD38ER10					
DA22NK05	6	7	3	6	5
KR04EN04	1	2	7	2	7
RA20GR06	3	3	5	5	6
ZE56CE11					
AN97RT07	5	4	4	5	6
JU46TT10	4	4	4	4	4
LS99LL07	5	2	5	3	5
NS46ND09	3	2	5	5	7
KI89ER12	1	6	7	7	7
AK12KY07	4	3	3	4	4
WN97AN05					
ON89EL11					
BA31DR12					
ER14NS11	4				
OR23ER03					
IN14CH07	6	3	5	2	4
BS61ER02					
LK46LK03	3	5	6	6	6
CE46RA09	3	3	5	5	6
TH79TH08	6	2	3	2	4
WN45ER12	3	1	1	1	4
	J	•	•	· ·	•

CodeID	Q4 [R]	Q23	Q34	Q36	Q38
RO69NO12					
HA27HU11	4	4	7	4	4
FF85RY01	4	4	4	4	4
LL07GE07	3	4	4	3	4
NR50KR05	2				
OP51BS10					
ER43ER01	1	1	1	1	1
ER03ER07					
SI58GH05					
ST39LL06	4	1	4	4	4
NZ61EZ06	3	3	5	5	5
IS91LE03	2	5	7	5	4
ER46CK07	7	1	2	2	4
TH95TE11	5	4	4	4	4
CE30RY07	2	5	6	6	6
PP76ER09	3				
ON53TE11					
EN59BE01	5				
TH39IS04	4	4	5	4	4
TO72KE09	5	3	5	5	4
NE37TZ10	4	4	4	4	5
ES96RS09					
KI89PA01	4	2	5	4	4
RI92EN11	2	6	6	6	7
JO39HL10					
SI07CI08					
OX89MS10	2	5	6	5	7
YD68TH09	2	4	6	4	6
BA31AN08	3	3	5	6	6
ST89AM11					
MS62LD08	3	3	7	6	6
IS08TS05	2	4	5	6	6
AN67AL11	4	1	1	1	4
ER35ER05	2	6	6	5	6
SH02EY04	4	4	4	3	4
LY13IN09	4	4	7	4	4
RU43BU02	4	5	5	5	5
EM58ER09	2	5	5	6	7
AN70TH03	6	6	6	6	4
OX59LL12	2	2	3	2	4
ER82SH04	4	6	6	5	5
US22RD02	3	2	4	4	5
RS94SH05	4	4	4	4	4
US59ER11	4	3	4	4	4
BO20LL09	4	4	5	5	4
ER53LL10	5	1	2	3	3
KL02US10	4	6	6	6	6

CodeID	Q4 [R]	Q23	Q34	Q36	Q38
RL49LS06	4	1	1	1	1
US67LL06					
OW56RE12	4	2	4	4	5
RS27RT01	1	5	6	6	7
EK59OD06					
ER03ER10	2	2	4	4	4
HA07ER09	2	5	6	5	6

### **Process – Participation**

CodeID	Q27	Q29	Q55	Q63
EN90ER11	Q21 5	<u>Q29</u>	4	Q03 5
ER58ON01	6	6	6	4
MS41EY07	5	5	3	2
LE24SO01	2	4	2	5
ER00EN11	3		3	2
LL91TH12	2	6	<u>5</u>	4
ER15AN02	5	5	3	
LE23ER11	4	6	5	2
ME19ES05	3	4	4	5
DS55RN04	2	4	6	2
ER55CE03	5	4	6	5
FT69ER02	5	6	6	6
AR29LE03	3	4	3	1
WI57KE01	2	4	4	2
LL61KE12	4	4	4	6
AR46RN06	3	4	4	4
LY92ER09	5	4	3	6
TH01IN02	4	4	6	4
	3	4	2	2
NN02IS09	3	5	5	3
	4	4	4	5
NS39MS03	1	1	1	1
ER03ON10	2	5	3	2
ER10ER02	5	6	5	6
OD16TT11	6	6	3	5
TH49GE01	3	4	4	2
BA17TT10	3	5	4	2
MA41AD07	4	5	5	5
TH35ER05	4	5	4	3
LE68ER11	4	5		3
HU26TS06	4	6	6	4
IS42IS10	5	6	4	5
	3	6	4	5
ER97ST11	6	5	5	3
ON63NS02	2	4	4	3
PP41IS05	4	5	4	5
MI63EN02	2	6	4	4
NG420N04	3	6	5	5
VE84EL05	5	4	3	2
RT07ER09	5	6	6	5
RY26ON05	2	4	4	5
EY27EP02	2	6	5	3

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CodeID	Q27	Q29	Q55	Q63
MS62LD08	3	6	6	6
NE45US03	3	4	5	2
ER35ER05	5	6	6	5
RY16AU12	4	4	5	5
JO54EN02	3	4	4	2
WE48RK08	6	6	6	6
RS27RT01	2 4	5 6	4	2 6
GH95OR12	4	5	3	4
TT20LA06	2	5	<u>5</u>	5
AN34CE07	6	6		6
AN34CEU7	2	3	3	4
AN46TT10	5	4	4	7
EY51HI09	3	6	5	5
WO80CH01	4	5	<u>5</u>	4
VVC0001101	1	4	4	4
UM37ER11	1	1	<u>.</u> 1	1
IS75ER06	5	7	5	6
BB30ER04	1	4	5	2
AN33LT07	2	4	5	6
CM01ON01	6	7	6	6
NS30CK08	3	5	4	3
EU12ER02	1	1	3	3
SU77EE03	3	3	3	2
ER50ER07	1	4	1	2
LS58IZ08	5	6	4	3
RO53KI08	1	4	1	1
RE46CK09	2	5		
AD38ER10				
DA22NK05	1	7	4	5
KR04EN04	2	7	6	5
RA20GR06	3	4	5	2
ZE56CE11				
AN97RT07	4	6		
JU46TT10	5	4	5	7
LS99LL07	6	7	1	6
NS46ND09	5	7	7	7
KI89ER12	5	6	7	5
AK12KY07	4	5	4	4
WN97AN05				
ON89EL11				
BA31DR12				
ER14NS11				
OR23ER03				

CodeID	Q27	Q29	Q55	Q63
IN14CH07	6	6	6	7
BS61ER02				•
LK46LK03	4	5	5	3
CE46RA09	3	3	4	5
TH79TH08	4	2	2	2
WN45ER12	1	1	1	1
RO69NO12				
HA27HU11	6	5	7	1
FF85RY01	4	5	2	2
LL07GE07	6	5	3	5
NR50KR05				
OP51BS10				
ER43ER01	1	1	1	6
ER03ER07				
SI58GH05				
ST39LL06	1	4	4	4
NZ61EZ06	3	5	5	5
IS91LE03	4	7	7	7
ER46CK07	2	2	4	1
TH95TE11	3	4	5	3
CE30RY07	3	5	6	3
PP76ER09				
ON53TE11				
EN59BE01				
TH39IS04	4	4		
TO72KE09	2	5	3	1
NE37TZ10	4	2	4	5
ES96RS09				
KI89PA01	4	5	4	4
RI92EN11	5	6	6	5
JO39HL10				
SI07CI08				
OX89MS10	2	5	6	5
YD68TH09	5	4	7	5
BA31AN08	5	4	5	5
ST89AM11				
MS62LD08	5	7	6	6
IS08TS05	4	5	4	5
AN67AL11	4	3	2	4
ER35ER05	5	6	5	5
SH02EY04	4	4	3	3
LY13IN09	4	5	5	3
RU43BU02	2	4	5	5
EM58ER09	5	6	6	6

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CodeID	Q27	Q29	Q55	Q63
AN70TH03	4	5	5	4
OX59LL12	4	4	3	1
ER82SH04	4	5	4	4
US22RD02	5	4	5	6
RS94SH05	4	4	4	4
US59ER11	5	5	4	5
BO20LL09	4	4	4	4
ER53LL10	4	3	2	2
KL02US10	2	5	3	2
RL49LS06	1	1	4	1
US67LL06				
OW56RE12	4	5	6	6
RS27RT01	4	6	6	6
EK59OD06				
ER03ER10	2	5	6	5
HA07ER09	5	6	6	

**Process – Communication Climate** 

CodeID	Q72 [R]	Q73 [R]	Q78 [R]	Q81
EN90ER11	2	4	4	5
ER58ON01	3	3	4	3
MS41EY07	7	7	7	2
LE24SO01	5	5	3	3
ER00EN11	5	5	5	3
LL91TH12	2	2	2	5
ER15AN02	3	2	3	5
LE23ER11	2	2	4	6
ME19ES05	5	3	5	3
DS55RN04	2	2	4	6
ER55CE03	2	3	3	5
FT69ER02	2	2	2	6
AR29LE03	5	5	3	6
WI57KE01	4	4	4	4
LL61KE12	3	2	2	5
AR46RN06	2	2	5	4
LY92ER09	3	2	5	3
TH01IN02	5	5	4	2
	6	4	3	3
NN02IS09	4	3	3	3
	1	2	6	2
NS39MS03	6	7	6	2
ER03ON10	6	5	4	2
ER10ER02	3	2	2	5
OD16TT11	2	2	6	6
TH49GE01	6	6	5	1
BA17TT10	4	4	2	3
MA41AD07	3	3	2	5
TH35ER05	6	6	5	3
LE68ER11	4	5	1	2
HU26TS06	2	2	2	6
IS42IS10	4	2	2	5
	4	3	3	4
ER97ST11	5	2	5	3
ON63NS02	4	3	4	4
PP41IS05	3	3	5	5
MI63EN02	4	4	3	3
NG420N04	4	3	2	6
VE84EL05	4	5	4	2
RT07ER09	2	2	2	6
RY26ON05	6	5	6	3
EY27EP02	3	3	5	3

CodeID	Q72 [R]	Q73 [R]	Q78 [R]	Q81
MS62LD08	2	1	6	5
NE45US03	3	3	3	3
ER35ER05	2	2	2	6
RY16AU12	4	4	3	4
JO54EN02	4	4	5	3
WE48RK08	2	2	5	4
	5	5	4	3
RS27RT01	7	7	2	6
GH95OR12	3	3	6	3
TT20LA06	1	1	3	3
AN34CE07	2	2	3	6
	5	2	5	2
AN46TT10	4	1	2	5
EY51HI09	3	3	2	5
WO80CH01	4	4	2	4
	7	7	6	1
UM37ER11	7	7	7	1
IS75ER06	2	2	2	6
BB30ER04	3	2	2	4
AN33LT07	3	2	2	4
CM01ON01	2	1	6	6
NS30CK08	5	5	5	3
EU12ER02	6	6	5	2
SU77EE03	6	3	2	3
ER50ER07	5	3	1	2
LS58IZ08	4	2	6	4
RO53KI08	7	7	1	1
RE46CK09				
AD38ER10				
DA22NK05	4	6	5	7
KR04EN04	1	1	1	7
RA20GR06	5	5	3	3
ZE56CE11				
AN97RT07				
JU46TT10	5	2	1	5
LS99LL07	2	2	7	4
NS46ND09	1	1	7	6
KI89ER12	1	1	2	7
AK12KY07	4	4	5	4
WN97AN05				
ON89EL11				
BA31DR12				
ER14NS11				
OR23ER03				

				221
CodeID	Q72 [R]	Q73 [R]	Q78 [R]	Q81
IN14CH07	2	1	4	5
BS61ER02				
LK46LK03	3	3	5	3
CE46RA09	3	2	3	3
TH79TH08	4	4	6	3
WN45ER12	7	7	7	1
RO69NO12	_			_
HA27HU11	7	7	1	2
FF85RY01	4	3	2	3
LL07GE07	2	2	3	3
NR50KR05				
OP51BS10				
ER43ER01	7	7	5	1
ER03ER07				
SI58GH05				
ST39LL06	4	4	4	2
NZ61EZ06	3	2	6	5
IS91LE03	4	3	6	6
ER46CK07	6	6	5	2
TH95TE11	5	5	5	3
CE30RY07	5	3	5	3
PP76ER09				
ON53TE11				
EN59BE01				
TH39IS04				
TO72KE09	5	5	5	3
NE37TZ10	4	2	4	7
ES96RS09				
KI89PA01	3	3	2	5
RI92EN11	1	3	1	5
JO39HL10				
SI07CI08				
OX89MS10	3	1	3	5
YD68TH09	2	2	4	5
BA31AN08	2	1	2	5
ST89AM11				
MS62LD08	2	1	7	5
IS08TS05	3	2	5	3
AN67AL11	7	5	4	2
ER35ER05	2	2	2	5
SH02EY04	5	4	3	4
LY13IN09	4	5	5	5
RU43BU02	3	2	3	3
EM58ER09	2	2	2	6

CodeID	Q72 [R]	Q73 [R]	Q78 [R]	Q81
AN70TH03	4	4	5	3
OX59LL12	7	7	7	1
ER82SH04	4	5	3	5
US22RD02	3	3	4	5
RS94SH05	5	6	3	4
US59ER11	3	4	3	3
BO20LL09	3	3	4	4
ER53LL10	6	5	5	4
KL02US10	3	2	2	5
RL49LS06	6	5	5	3
US67LL06				
OW56RE12	2	2	2	5
RS27RT01	4	4	4	5
EK59OD06				
ER03ER10	5	2	4	3
HA07ER09				

**Process – Quality of Information** 

CodeID	Q17	Q21	Q51
EN90ER11	5	5	6
ER58ON01	6	6	5
MS41EY07	2	1	2
LE24SO01	5	3	2
ER00EN11	5	2	2
LL91TH12	5	4	4
ER15AN02	5	5	4
LE23ER11	6	5	4
ME19ES05	4	1	2
DS55RN04	4	3	4
ER55CE03	5	3	5
FT69ER02	6	5	5
AR29LE03	5	5	2
WI57KE01	4	3	3
LL61KE12	3	2	4
AR46RN06	4	4	4
LY92ER09	4	2	2
TH01IN02	4	4	4
	4	4	3
NN02IS09	4	4	1
	4	4	4
NS39MS03	1	1	1
ER03ON10	3	2	3
ER10ER02	6	4	5
OD16TT11	6	6	6
TH49GE01	1	2	2
BA17TT10	4	2	4
MA41AD07	4	5	6
TH35ER05	2	2	1
LE68ER11	7	5	1
HU26TS06	6	4	6
IS42IS10	5	6	4
	4	4	3
ER97ST11	6	4	3
ON63NS02	5	4	4
PP41IS05	4	3	4
MI63EN02	4	4	4
NG420N04	4	4	4
VE84EL05	2	1	1
RT07ER09	6	5	5
RY26ON05	4	4	1
EY27EP02	3	2	1

CodeID	Q17	Q21	Q51
MS62LD08	7	3	6
NE45US03	6	2	4
ER35ER05	6	6	6
RY16AU12	4	2	2
JO54EN02	4	4	4
WE48RK08	6	3	4
	4	4	4
RS27RT01	7	2	3
GH95OR12	2	3	2 2
TT20LA06	6	2	2
AN34CE07	7	5	5
	2	2	3 2
AN46TT10	4	1	2
EY51HI09	6	3	3
WO80CH01	4	2	4
	5	4	4
UM37ER11	1	1	1
IS75ER06	6	5	5
BB30ER04	5	3	4
AN33LT07	4	2	4
CM01ON01	6	5	6
NS30CK08	5	4	3
EU12ER02	5	1	2
SU77EE03	3	3	3
ER50ER07	1	1	4
LS58IZ08	4	2	2
RO53KI08	7	1	4
RE46CK09	6	2	
AD38ER10			
DA22NK05	5	1	2
KR04EN04	6	2	2
RA20GR06	5	3	1
ZE56CE11			
AN97RT07	6	4	
JU46TT10	4	3	1
LS99LL07	7	3	3
NS46ND09	6	6	6
KI89ER12	6	4	6
AK12KY07	4	4	4
WN97AN05			
ON89EL11			
BA31DR12		-	
ER14NS11	7		
OR23ER03			

	- · -	221	2-1
CodeID	Q17	Q21	Q51
IN14CH07	4	2	4
BS61ER02	_		_
LK46LK03	7	5	5
CE46RA09	3	2	3
TH79TH08	2	2	2
WN45ER12	1	1	1
RO69NO12			
HA27HU11	7	7	7
FF85RY01	2	2	2
LL07GE07	4	4	4
NR50KR05	7		
OP51BS10			
ER43ER01	1	1	1
ER03ER07			
SI58GH05			
ST39LL06	1	1	1
NZ61EZ06	6	3	3
IS91LE03	7	7	4
ER46CK07	4	1	1
TH95TE11	5	5	4
CE30RY07	4	4	6
PP76ER09	2		
ON53TE11			
EN59BE01	5		
TH39IS04	4	4	
TO72KE09	5	3	3
NE37TZ10	5	1	4
ES96RS09			
KI89PA01	5	3	2
RI92EN11	3	3	3
JO39HL10			
SI07CI08			
OX89MS10	6	5	5
YD68TH09	5	5	4
BA31AN08	4	5	4
ST89AM11			
MS62LD08	7	5	6
IS08TS05	5	4	4
AN67AL11	1	1	1
ER35ER05	6	5	6
SH02EY04	3	3	3
LY13IN09	5	4	4
RU43BU02	3	2	2
EM58ER09	5	5	5

-			
CodeID	Q17	Q21	Q51
AN70TH03	5	2	4
OX59LL12	4	4	3
ER82SH04	6	5	5
US22RD02	5	3	4
RS94SH05	4	4	4
US59ER11	5	2	3
BO20LL09	4	4	4
ER53LL10	6	4	2
KL02US10	6	6	6
RL49LS06	4	1	1
US67LL06			
OW56RE12	4	4	4
RS27RT01	7	5	3
EK59OD06			
ER03ER10	3	3	4
HA07ER09	6	5	6

**Context - Perceived Organizational Support** 

CodeID	Q64	Q68 [R]	Q71	Q74	Q76	Q80 [R]
EN90ER11	6	4	6	6	5	1
ER58ON01	2	4	4	4	3	4
MS41EY07	2	4	3	2	2	6
LE24SO01	5	2	5	3	5	5
ER00EN11	3	5	3	1	1	5
LL91TH12	6	2	5	6	6	2
ER15AN02	5	4	5	4	3	3
LE23ER11	2	4	4	3	4	4
ME19ES05	4	3	4	4	4	4
DS55RN04	5	2	6	5	5	2
ER55CE03	4	2	5	5	5	3
FT69ER02	6	2	7	6	6	1
AR29LE03	3	3	4	3	4	6
WI57KE01	4	4	4	4	4	4
LL61KE12	5	2	5	5	5	2
AR46RN06	6	3	4	5	4	4
LY92ER09	3	3	5	4	3	3
TH01IN02	4	5	4	3	3	4
	2	4	4	3	3	5
NN02IS09	3	6	4	2	2	6
	5	2	6	5	3	3
NS39MS03	1	7	1	1	1	7
ER03ON10	3	5	5	3	3	5
ER10ER02	5	2	5	5	5	2
OD16TT11	5	2	5	5	5	2
TH49GE01	4	4	4	4	4	4
BA17TT10	1	6	1	1	3	6
MA41AD07	5	3	5	5	5	3
TH35ER05	3	5	4	3	4	6
LE68ER11	5	7	4	2	5	1
HU26TS06	7	2	7	6	6	1
IS42IS10	5	2	5	6	5	4
	5	5	5	4	5	3
ER97ST11	6	2	4	2	5	5
ON63NS02	4	3	4	5	4	3
PP41IS05	5	3	5	5	5 5	3 3
MI63EN02	3 6	3	<u>4</u> 5	<u>4</u> 5	6	<u> </u>
NG420N04	4	4	4	4	4	4
VE84EL05	5	1	7	7	7	1
RT07ER09 RY26ON05	5 5	5	5	3	4	4
-	5	5	5	2	3	3
EY27EP02 MS62LD08	7	1	6	6	6	5
NE45US03	6	2	5	6	6	2
ER35ER05	6	2	5	6	6	2
RY16AU12	6	3	5	5	5	2
INT TOAUTZ	O	J	5	5	5	

JO54EN02	CodeID	Q64	Q68 [R]	Q71	Q74	Q76	Q80 [R]
WE48RK08         5         3         6         4         5           RS27RT01         5         2         5         3         5           GH95OR12         5         2         4         6         5           TT20LA06         5         1         6         6         6           AN34CE07         6         1         6         6         6           AN46TT10         6         1         6         6         6           EY51HI09         5         3         5         5         4         4           AN46TT10         6         1         6         8         8         8         3         3         3         3         3         3         3         3         3         3         3         5         5         5         5         5		4	5	5	5	5	3
RS27RT01							3
RS27RT01	VVETORITOO						5
GH95OR12	RS27RT01						4
TT20LA06							2
AN34CE07 6 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	-						2
3   5   5   4   4							6
AN46TT10	ANOTOLOT						5
EY51HI09	ΔN46TT10						1
WO80CH01         5         5         3         3         3           UM37ER11         1         7         7         1         1           IS75ER06         6         1         6         6         6           BB30ER04         4         5         2         5         3           AN33LT07         5         2         6         5         5           CM010N01         5         2         6         5         5           CM010N01         5         2         6         6         5           NS30CK08         3         3         3         3         5           EU12ER02         2         6         3         2         3           SU77EE03         5         3         5         5         5           ER50ER07         2         3         5         6         5           LS58IZ08         4         2         6         6         6           RO53KI08         1         7         1         1         1           RE46CK09         1         0         0         0         0         0         0         0         0         0							3
UM37ER11         1         7         7         1         1           IS75ER06         6         1         6         6         6           BB30ER04         4         5         2         5         3           AN33LT07         5         2         6         5         5           CM010N01         5         2         6         6         5           NS30CK08         3         3         3         3         5           EU12ER02         2         6         3         2         3           SU77EE03         5         3         5         5         5           ER50ER07         2         3         5         6         5           LS58IZ08         4         2         6         6         6           RO53KI08         1         7         1         1         1           RE46CK09         1         1         1         1         1           AD38ER10         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0							2
UM37ER11         1         7         7         1         1           IS75ER06         6         1         6         6         6           BB30ER04         4         5         2         5         3           AN33LT07         5         2         6         5         5           CM01ON01         5         2         6         6         5           NS30CK08         3         3         3         3         3         5           EU12ER02         2         6         3         2         3         5           EU12ER02         2         6         3         2         3         5         5           EV12ER02         2         6         3         2         3         5         5         5           EV12ER02         2         6         3         2         3         5         5         5           EV12ER02         2         3         5         5         5         5         5           ER50ER07         2         3         5         6         6         6         6           RO53KI08         1         7         1	7700001101						7
S75ER06	UM37FR11						7
BB30ER04							2
AN33LT07							4
CM010N01         5         2         6         5           NS30CK08         3         3         3         5           EU12ER02         2         6         3         2         3           SU77EE03         5         3         5         5         5           ER50ER07         2         3         5         6         5           LS58IZ08         4         2         6         6         6           RO53KI08         1         7         1         1         1         1           RE46CK09         1         4         5         4         4         4         5         4         4         4         6         8         7         5         4         5         4         4         4         7         2         5         5         5         5							3
NS30CK08 3 3 3 5 5 EU12ER02 2 6 3 2 3 3 SU77EE03 5 3 5 5 5 5 5 5 ER50ER07 2 3 5 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							2
EU12ER02							5
SU77EE03         5         3         5         5           ER50ER07         2         3         5         6         5           LS58IZ08         4         2         6         6         6           RO53KI08         1         7         1         1         1           RE46CK09         4         4         5         4           AD38ER10         5         4         5         4           KR04EN04         7         2         5         5         5           RA20GR06         2         5         3         5         5           ZE56CE11         4         4         6         6         6         6           LS99LL07         6         2         6         5         5         5           NS46ND09         6         1         6         6         6         6           KI89ER12         7         1         6         7         7							6
ER50ER07 2 3 5 6 5 LS58IZ08 4 2 6 6 6 RO53KI08 1 7 1 1 1 1 RE46CK09 AD38ER10 DA22NK05 7 5 4 5 4 KR04EN04 7 2 5 5 5 RA20GR06 2 5 3 5 5 ZE56CE11 AN97RT07 JU46TT10 6 1 6 6 6 LS99LL07 6 2 6 5 5 NS46ND09 6 1 6 6 6 KI89ER12 7 1 6 7 7	-						3
LS58IZ08							5
RO53KI08 1 7 1 1 1 1 1 RE46CK09 AD38ER10 DA22NK05 7 5 4 5 4 KR04EN04 7 2 5 5 5 5 S ZE56CE11 AN97RT07 JU46TT10 6 1 6 6 6 LS99LL07 6 2 6 5 5 NS46ND09 6 1 6 7 7							2
RE46CK09 AD38ER10 DA22NK05 7 5 4 5 4 KR04EN04 7 2 5 5 5 RA20GR06 2 5 3 5 5 ZE56CE11 AN97RT07 JU46TT10 6 1 6 6 6 LS99LL07 6 2 6 5 5 NS46ND09 6 1 6 6 6 KI89ER12 7 1 6 7 7							7
AD38ER10 DA22NK05 7 5 4 5 4 KR04EN04 7 2 5 5 5 RA20GR06 2 5 3 5 ZE56CE11 AN97RT07 JU46TT10 6 LS99LL07 6 2 6 5 NS46ND09 6 KI89ER12 7 1 6 7 7	-		,				'
DA22NK05       7       5       4       5       4         KR04EN04       7       2       5       5       5         RA20GR06       2       5       3       5       5         ZE56CE11       AN97RT07         JU46TT10       6       1       6       6       6         LS99LL07       6       2       6       5       5         NS46ND09       6       1       6       6       6         KI89ER12       7       1       6       7       7	-						
KR04EN04       7       2       5       5       5         RA20GR06       2       5       3       5       5         ZE56CE11       AN97RT07         JU46TT10       6       1       6       6       6         LS99LL07       6       2       6       5       5         NS46ND09       6       1       6       6       6         KI89ER12       7       1       6       7       7		7	5	4	5	4	6
RA20GR06 2 5 3 5 5 ZE56CE11 AN97RT07 JU46TT10 6 1 6 6 6 LS99LL07 6 2 6 5 5 NS46ND09 6 1 6 6 6 KI89ER12 7 1 6 7 7							1
ZE56CE11 AN97RT07 JU46TT10 6 1 6 6 6 LS99LL07 6 2 6 5 5 NS46ND09 6 1 6 6 6 KI89ER12 7 1 6 7 7							3
AN97RT07  JU46TT10 6 1 6 6 6  LS99LL07 6 2 6 5 5  NS46ND09 6 1 6 6 6  KI89ER12 7 1 6 7 7							
JU46TT10     6     1     6     6       LS99LL07     6     2     6     5     5       NS46ND09     6     1     6     6     6       KI89ER12     7     1     6     7     7							
LS99LL07 6 2 6 5 5 NS46ND09 6 1 6 6 6 KI89ER12 7 1 6 7 7		6	1	6	6	6	1
NS46ND09 6 1 6 6 6 KI89ER12 7 1 6 7 7	-						2
KI89ER12 7 1 6 7 7							1
							2
TANTANTO I DI TI TI DI TI	AK12KY07	5	4	4	3	4	2
WN97AN05							
ON89EL11							
BA31DR12							
ER14NS11	-						
OR23ER03							
IN14CH07 4 2 6 6 5		4	2	6	6	5	2
BS61ER02	-						
LK46LK03 5 5 5 5		5	5	5	5	5	3
CE46RA09 5 2 6 6 5	-						2
TH79TH08 2 6 2 2 2							6
WN45ER12 1 1 1 1 1 1	-						7
RO69NO12	-		•	•	•	•	- '
HA27HU11 4 4 6 6 6		4	4	6	6	6	6

	Q64	Q68 [R]	Q71	Q74	Q76	Q80 [R]
CodeID						
FF85RY01	5	4	4	4	4	4
LL07GE07	4	3	6	6	6	3
NR50KR05						
OP51BS10						
ER43ER01	1	5	2	3	4	4
ER03ER07						
SI58GH05						
ST39LL06	4	6	2	3	3	4
NZ61EZ06	5	2	5	5	6	2
IS91LE03	7	1	4	5	5	3
ER46CK07	1	7	1	2	2	7
TH95TE11	4	5	4	3	3	6
CE30RY07	6	5	4	5	5	5
PP76ER09						
ON53TE11						
EN59BE01						
TH39IS04						
TO72KE09	1	5	3	3	3	5
NE37TZ10	6	2	6	6	6	2
ES96RS09						
KI89PA01	3	3	4	3	3	4
RI92EN11	5	5	3	6	3	5
JO39HL10						
SI07CI08						
OX89MS10	6	2	4	5	6	2
YD68TH09	6	2	5	5	5	2
BA31AN08	5	1	6	6	6	1
ST89AM11						
MS62LD08	6	2	6	5	5	3
IS08TS05	6	1	5	5	5	3
AN67AL11	5	4	3	4	4	3
ER35ER05	6	2	6	6	6	2
SH02EY04	5	6	3	3	3	5
LY13IN09	6	3	5	5	5	3
RU43BU02	5	3	5	5	5	3
EM58ER09	6	2	6	5	5	2
AN70TH03	4	4	4	4	4	4
OX59LL12	1	7	1	1	1	7
ER82SH04	5	3	4	5	5	3
US22RD02	5	3	5	5	5	3
RS94SH05	4	4	4	4	3	6
US59ER11	5	3	4	4	4	4
BO20LL09	4	4	4	4	4	3
ER53LL10	3	5	4	1	3	5
KL02US10	3	6	5	3	2	6
RL49LS06	3	5	3	3	3	5
US67LL06						
OW56RE12	6	2	6	6	6	2

CodeID	Q64	Q68 [R]	Q71	Q74	Q76	Q80 [R]
RS27RT01	6	1	3	4	6	2
EK59OD06						
ER03ER10	5	2	6	5	5	5
HA07ER09						

## Context - Discrepancy

	Q66	Q79	Q82
CodeID			_
EN90ER11	4	4	7
ER58ON01	5	4	6
MS41EY07	7	2	7
LE24SO01	2	4	5
ER00EN11	5	4	5
LL91TH12	2	3	5
ER15AN02	2	4	3
LE23ER11	6	6	6
ME19ES05	4	3	4
DS55RN04	3	6	4
ER55CE03	5	3	3
FT69ER02	2	6	1
AR29LE03	7	2	6
WI57KE01	4	4	5
LL61KE12	4	5	2
AR46RN06	6	4	4
LY92ER09	5	4	5
TH01IN02	4	5	6
	3	3	4
NN02IS09	5	2	6
	6	3	6
NS39MS03	7	1	7
ER03ON10	5	3	6
ER10ER02	7	4	6
OD16TT11	5	5	6
TH49GE01	1	1	6
BA17TT10	4	4	4
MA41AD07	3	3	4
TH35ER05	4	2	4
LE68ER11	4	1	4
HU26TS06	6	5	4
IS42IS10	6	5	4
	5	5	5
ER97ST11	2	2	5
ON63NS02	3	4	4
PP41IS05	5	5	5
MI63EN02	5	4	6
NG420N04	4	6	2
VE84EL05	4	2	4
RT07ER09	4	6	4
RY26ON05	5	5	6
EY27EP02	5	2	5
MS62LD08	7	2	6
NE45US03	4	6	5
ER35ER05	6	6	2
RY16AU12	4	4	4

	Q66	Q79	Q82
CodeID			
JO54EN02	5	3	5
WE48RK08	5	4	5
	4	4	5
RS27RT01	4	6	3
GH95OR12	4	5	6
TT20LA06	3	6	5
AN34CE07	6	5	5
	4	4	5
AN46TT10	4	6	2
EY51HI09	5	5	4
WO80CH01	4	4	4
	4	4	7
UM37ER11	3	1	7
IS75ER06	5	6	5
BB30ER04	5	4	5
AN33LT07	7	4	6
CM01ON01	6	6	2
NS30CK08	4	3	5
EU12ER02	5	3	7
SU77EE03	7	5	6
ER50ER07	6	1	7
LS58IZ08	7	4	6
RO53KI08	4	4	7
RE46CK09			
AD38ER10			
DA22NK05	1	5	7
KR04EN04	2	1	7
RA20GR06	2	6	6
ZE56CE11			
AN97RT07			
JU46TT10	1	6	3
LS99LL07	5	6	6
NS46ND09	4	6	5
KI89ER12	5	7	7
AK12KY07	4	4	4
WN97AN05	•	•	•
ON89EL11			
BA31DR12			
ER14NS11			
OR23ER03			
IN14CH07	6	4	6
	0	7	0
BS61ER02 LK46LK03	5	5	5
	3	5	5
CE46RA09	4	4	6
TH79TH08	<del>4</del> 1	1	7
WN45ER12	Į.	l l	/
RO69NO12	7	E	7
HA27HU11	1	5	7

	Q66	Q79	Q82
CodeID			
FF85RY01	4	4	4
LL07GE07	4	4	6
NR50KR05			
OP51BS10			
ER43ER01	4	7	7
ER03ER07			
SI58GH05			
ST39LL06	4	4	6
NZ61EZ06	6	5	6
IS91LE03	7	6	7
ER46CK07	7	2	7
TH95TE11	4	5	6
CE30RY07	2	3	6
PP76ER09			
ON53TE11			
EN59BE01			
TH39IS04			
TO72KE09	4	3	6
NE37TZ10	4	5	1
ES96RS09			
KI89PA01	5	3	4
RI92EN11	6	6	3
JO39HL10			
SI07CI08			
OX89MS10	5	5	3
YD68TH09	2	5	4
BA31AN08	2	6	2
ST89AM11	_		_
MS62LD08	6	6	4
IS08TS05	5	5	5
AN67AL11	5	4	
ER35ER05	6	6	4 3
SH02EY04	4	3	4
LY13IN09	4	5	4
RU43BU02	4	4	5
EM58ER09	4	5	5
-	4	5	3
AN70TH03 OX59LL12	7	1	7
	2	4	4
ER82SH04	3	4	5
US22RD02	4	4	5
RS94SH05	-	3	
US59ER11	5	4	5 5
BO20LL09	5		7
ER53LL10	6	1	
KL02US10	4	3	6
RL49LS06	5	3	4
US67LL06			
OW56RE12	5	5	4

	Q66	Q79	Q82
CodeID			
RS27RT01	4	7	5
EK59OD06			
ER03ER10	5	6	5
HA07ER09			

**Context – Principal Support** 

CodeID	Q1	Q28
EN90ER11	6	5
ER58ON01	7	
MS41EY07	1	4
LE24SO01	4	4
ER00EN11	4	3
LL91TH12	6	3
ER15AN02	6	4
LE23ER11	5	4
ME19ES05	5	4
DS55RN04	5	4
ER55CE03	6	3
FT69ER02	7	6
AR29LE03	3	3
WI57KE01	6	4
LL61KE12	4	4
AR46RN06	6	4
LY92ER09	6	4
TH01IN02	4	4
	4	4
NN02IS09	6	4
	6	5 4 4 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4
NS39MS03	4	4
ER03ON10	6	2
ER10ER02	6	5
OD16TT11	6	5
TH49GE01	6	4
BA17TT10	3	3
MA41AD07	4	5
TH35ER05	4	4
LE68ER11	5	4
HU26TS06	6	5
IS42IS10	6	4
	4	4
ER97ST11	6	
ON63NS02	6	4
PP41IS05	5	5 4
MI63EN02	5	4
NG420N04	6	4 3 4
VE84EL05	4	3
RT07ER09	6	4
RY26ON05	5	4
EY27EP02	6	4

CodeID		
14000L D00	Q1	Q28
MS62LD08	6	5
NE45US03	6	5
ER35ER05	6	5
RY16AU12	4	4
JO54EN02	5	4
WE48RK08	7	4
	4	3
RS27RT01	2	4
GH95OR12	6	2
TT20LA06	6	5
AN34CE07	5	6
	5	4
AN46TT10	6	4
EY51HI09	6	4
WO80CH01	6	4
	3	3
UM37ER11	2	1
IS75ER06	6	6
BB30ER04	5	3
AN33LT07	6	4
CM010N01	6	6
NS30CK08	5	3
EU12ER02	5	1
SU77EE03	5	3
ER50ER07	2	4
LS58IZ08	6	4
RO53KI08	4	4
RE46CK09	5	<del>7</del> 1
AD38ER10	5	<u>'</u>
DA22NK05	4	1
KR04EN04	_	
RA20GR06	7	5
ZE56CE11	5	4
AN97RT07	0	4
	6	4
JU46TT10	4	4
LS99LL07	5	3
NS46ND09	6	5
KI89ER12	7	5
AK12KY07	6	4
WN97AN05		
ON89EL11		
BA31DR12		
ER14NS11	5	
OR23ER03		

CodeID		
	Q1	Q28
IN14CH07	6	6
BS61ER02		
LK46LK03	7	5
CE46RA09	6	
TH79TH08	2	3 2
WN45ER12	1	1
RO69NO12		
HA27HU11	4	7
FF85RY01	4	4
LL07GE07	6	4
NR50KR05	7	
OP51BS10		
ER43ER01	2	1
ER03ER07		
SI58GH05		
ST39LL06	5	4
NZ61EZ06	5	4
IS91LE03	7	4
ER46CK07	7 2 7	2
TH95TE11	7	4 2 4
CE30RY07	5	4
PP76ER09	5	
ON53TE11		
EN59BE01	4	
TH39IS04	5	4
TO72KE09	3	4
NE37TZ10	5	4
ES96RS09		
KI89PA01	5	4
RI92EN11	7	5
JO39HL10		
SI07CI08		
OX89MS10	7	6
YD68TH09	7	4
BA31AN08	6	5
ST89AM11		
MS62LD08	6	6
IS08TS05	6	5
AN67AL11	5	4
ER35ER05	7	5
SH02EY04	4	4
LY13IN09	5	5
RU43BU02	5	4
EM58ER09	6	5
1		

CodeID	Q1	Q28
AN70TH03	3	5
OX59LL12	4	2
ER82SH04	6	5
US22RD02	4	4
RS94SH05	4	4
US59ER11	5	5
BO20LL09	7	4
ER53LL10	4	3
KL02US10	6	6
RL49LS06	3	1
US67LL06		
OW56RE12	6	4
RS27RT01	6	4
EK59OD06		
ER03ER10	6	4
HA07ER09	6	5

### **Individual – Positive Affect**

	T	T	T							
CodelD	Interested	Excited	Strong	Enthusiastic	Proud	Alert	Inspired	Determined	Attentive	Active
EN90ER11	4	3	3	2	4	4	4	5	4	4
ER58ON01	5	4	4	4	4	4	4	4	4	4
MS41EY07	1	1	1	1	1	1	1	1	1	1
LE24SO01	3	1	2	2	2	3	2	3	3	3
ER00EN11	4	4	2	3	3	3	2	3	3	3
LL91TH12	4	4	3	4	5	4	4	4	4	4
ER15AN02	4	1	2	1	1	1	1	1	1	1
LE23ER11	5	3	3	4	3	3	4	4	3	4
ME19ES05	3	1	1	2	2	3	3	1	4	3
DS55RN04	4	4	3	4	3	4	4	3	4	4
ER55CE03	4	4	5	4	4	4	3	4	4	5
FT69ER02	5	4	5	5	5	5	5	5	4	4
AR29LE03	3	1	3	1	2	3	3	2	3	3
WI57KE01	3	2	2	3	2	3	2	2	3	3
LL61KE12	3	2	2	2		1	2	3	3	2
AR46RN06	5	4	5	5	4	5	5	5	5	5
LY92ER09	5	2	5	3	4	5	4	5	4	4
TH01IN02	4	3	4	4	4	4	3	4	4	4
	2	1	1	1	1	1	1	1	2	1
NN02IS09	3	3	1	3	2	2	3	3	3	3
	5	5	4	5	4	4	5	4	5	
NS39MS03	4	3	4	4	4	4	5	4	4	4
ER030N10	3	3	3	3	3	1	2	3	3	2
ER10ER02	3	3	3	3	3	4	3	3	3	3
OD16TT11	4	3	3	3	2	4	3	4	4	4
TH49GE01	3	4	3	3	2	3	1	4	3	1
BA17TT10	3	4	4	3	3	3	3	3	3	4
MA41AD07	3	3	3	4	4	4	2	4	4	3
TH35ER05	5	3	5	3	4	3	2	5	3	5
LE68ER11	4	1	1	3	1	3	2	4	5	5
HU26TS06	5	4	4	4	4	4	4	5	4	4
IS42IS10	4	3	4	4	4	4	4	5	4	4
	3	3	3	3	3	3	3	3	3	3
ER97ST11	3	3	2	3	1	4	2	4	4	
ON63NS02	2	1	1	2	1	1	1	1	3	1
PP41IS05	4	3	3	3	3	4	3	4	3	3
MI63EN02	4	3	3	3	3	3	2	4	4	4
NG420N04	5	5	4	4	4	4	4	5	5	4

CodelD	Interested	Excited	Strong	Enthusiastic	Proud	Alert	Inspired	Determined	Attentive	Active
VE84EL05	4	3	4	3	4	3	2	3	3	2
RT07ER09	4	3	4	3	3	4	3	3	4	4
RY26ON05	4	5	4	5	4	4	4	4	4	5
EY27EP02	3	1	2	1	2	2	2	3	3	2
MS62LD08	5	5	3	5	5	5	5	5	5	5
NE45US03	4	4	3	4	4	3	4	4	4	4
ER35ER05	4	3	3	4	4	3	3	3	4	3
RY16AU12	3	1	1	2	2	2	1	2	2	2
JO54EN02	4	3	3	3	4	4	3	3	4	3
WE48RK08	4	4	4	3	3	4	4	4	4	4
	4	1	4	3	3	4	3	4	4	4
RS27RT01	4	4	5	4	5	4	3	4	4	4
GH95OR12	4	3	4	4	3	4	3	3	4	4
TT20LA06	3	3	3	3	3	3	3	2	3	2
AN34CE07	5	4	4	4	5		4	4	4	5
	5	4	5	4	5	5	5	5	5	5
AN46TT10	3	2	1	3	1	1	2	2	2	2
EY51HI09	4	4	3	4	3	3	4	3	4	3
WO80CH01	4	3	3	3	3	3	3	3	3	3
	4	2	1	2	1	2	1	2	4	2
UM37ER11	4	3	2	2	1	3	1	4	4	3
IS75ER06	4	4	3	4				3	2	
BB30ER04	4	3	2	4	5	4	2	4	4	4
AN33LT07	4	3	4	4	4	5	3	5	5	5
CM01ON01	4	2	4	4	4	4	3	5	5	4
NS30CK08	3	2	1	3	2	2	2	2	2	2
EU12ER02	4	3	2	4	3	4	2	4	4	4
SU77EE03	5	5	5	5	4	4	4	5	4	5
ER50ER07	3	2	3	4	3	3	3	4	4	4
LS58IZ08	5	4	4	5	4	4	3	5	4	4
RO53KI08	5	5	3	4	4	5	5	5	5	4
RE46CK09										
AD38ER10										
DA22NK05	5	5	5	3	3	2	3	1	1	1
KR04EN04	5	3	4	4	5	4	4	4	1	4
RA20GR06	3	2	3	3	3	3	2	4	3	4
ZE56CE11										
AN97RT07										
JU46TT10	3	1	3	1	1	1	1	1	1	1
LS99LL07	5	5	4	4	5	5	5	5	5	5

CodeID	Interested	Excited	Strong	Enthusiastic	Proud	Alert	Inspired	Determined	Attentive	Active
NS46ND09	5	4	4	5	5	5	5	5	5	5
KI89ER12	5	5	5	5	4	5	5	5	5	5
AK12KY07	3	3	4	4	4	4	4	4	3	4
WN97AN05										
ON89EL11										
BA31DR12										
ER14NS11										
OR23ER03										
IN14CH07	4	4	4	5	5	5	3	4	4	5
BS61ER02										
LK46LK03	4	3	3	4	3	4	3	3	3	4
CE46RA09	4	3	3	3	3	4	3	4	4	4
TH79TH08	2	3	4	4	4	2	2	4	3	4
WN45ER12	5	5	4	4	1	3	1	3	4	3
RO69NO12										
HA27HU11	5	5	5	5	5	5	5	5	5	5
FF85RY01	5	5	4	3	2	5	3	5	5	4
LL07GE07	3	2	3	3	3	3	3	3	4	4
NR50KR05										
OP51BS10										
ER43ER01	4	3	5	3	3	3	2	3	3	3
ER03ER07										
SI58GH05										
ST39LL06	4	4	4	3	4	4	3	4	4	3
NZ61EZ06	4	4	4	4	4	3	3	4	4	4
IS91LE03	5	5	5	5	5	5	5	5	5	5
ER46CK07	2	1	2	1	1	2	1	1	1	1
TH95TE11	4	3	4	3	3	3	3	3	3	3
CE30RY07	5	3	4	4	3	4	3	4	4	4
PP76ER09										
ON53TE11										
EN59BE01										
TH39IS04										
TO72KE09	3	2	2	2	2	3	1	2	3	1
NE37TZ10	4	2	1	1	1	1	1	1	1	1
ES96RS09										
KI89PA01	4	3	3	3	3	3	1	2	2	2
RI92EN11	5	5	5	5	5	5	5	5	5	4
JO39HL10										
SI07CI08										

CodeID	Interested	Excited	Strong	Enthusiastic	Proud	Alert	Inspired	Determined	Attentive	Active
OX89MS10	4	4	5	4	5	4	4	4	4	5
YD68TH09	4	5	4	4	4	4	4	4	5	4
BA31AN08	4	4	3	5	4	5	5	5	4	5
ST89AM11										
MS62LD08	5	5	3	5	5	2	4	5	4	3
IS08TS05	4	3	3	3	4	4	3	4	3	3
AN67AL11	4	4	3	4	3	3	4	3	3	2
ER35ER05	4	3	4	3	4	4	3	3	3	4
SH02EY04	2	1	1	1	2	2	1	2	2	2
LY13IN09	3	3	3	4	4	2	3	4	4	4
RU43BU02	3	1	1	1	1	1	1	1	2	2
EM58ER09	4	3	4	3	3	4	2	3	3	4
AN70TH03	2	2	2	2	2	2	2	2	2	2
OX59LL12	4	4	4	4	2	4	2	4	4	4
ER82SH04	3	3	3	3	3	3	2	2	3	3
US22RD02	3	3	2	2	3	3	3	3	4	4
RS94SH05	2	2	2	2	2	2	2	2	2	2
US59ER11	4	3	3	3	2	3	3	3	3	3
BO20LL09	4	2	2	4	5	5	3	4	4	5
ER53LL10	5	4	4	5	5	3	2	4	4	4
KL02US10	2	2	3	2	3	3	2	3	3	3
RL49LS06	3	2	2	2	2	2	2	2	2	2
US67LL06										
OW56RE12	4	5	5	5	5	5	5	5	5	5
RS27RT01	5	5	5	4	5	5	4	4	4	5
EK59OD06										
ER03ER10	4	2	1	3	3	3	2	4	4	2
HA07ER09										

## Individual – Negative Affect

CodelD	Distressed [R]	Upset [R]	Guilty [R]	Scared [R]	Hostile [R]	Irritable [R]	Ashamed [R]	Nervous [R]	Jittery [R]	Afraid [R]
EN90ER11	1	1	1	2	1	1	1	1	1	1
ER58ON01	1	1	1	1	1	1	1	1	1	1
MS41EY07	1	1	1	1	1	2	1	2	1	1
LE24SO01	1	1	1	1	1	1	1	1	1	1
ER00EN11	3	2	1	2	1	1	1	3	2	2
LL91TH12	1	1	1	2	1	1	1	2	2	2
ER15AN02	3	1	1	1	1	1	1	1	1	1
LE23ER11	2	2	1	2	1	1	1	2	1	1
ME19ES05	1	1	1	1	1	3	1	3	1	1
DS55RN04	2	1	1	2	2	1	1	2	1	1
ER55CE03	2	2	2	2	2	2	2	2	2	2
FT69ER02	1	2	1	1	1	1	1	1	2	1
AR29LE03	5	2	1	1	2	2	2	2	3	2
WI57KE01	1	1	1	2	2	2	1	2	1	1
LL61KE12	2	2	1	2	1	1	1	2	2	2
AR46RN06	1	1	1	1	1	1	1	1	1	1
LY92ER09	2	2	1	1	1	2	1	1	1	1
TH01IN02	1	2	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1
NN02IS09	1	1	1	2	1	1	1	2	1	2
	2	1	1	2	1	1	1	2	2	1
NS39MS03	1	1	1	1	1	1	1	1	1	1
ER03ON10	3	3	1	1	1	1	1	1	1	1
ER10ER02	1	1	1	1	1	2	1	1	1	1
OD16TT11	2	2	1	1	2	1	1	1	1	1
TH49GE01	2	3	1	1	2	4	1	2	1	1
BA17TT10	3	5	1	1	1	3	1	4	4	2
MA41AD07	2	1	1	1	1	2	1	1	1	1
TH35ER05	2	1	1	1	1	1	1	1	1	1
LE68ER11	1	1	1	1	1	1	1	1	1	1
HU26TS06	3	2	1	5	1	2	1	3	3	3
IS42IS10	1	1	1	1	1	1	1	1	1	1
	2	1	1	1	1	1	1	2	1	1
ER97ST11	2	2	1	2	2	2	1	2		2
ON63NS02	1	1	1	1	1	1	1	1	1	1
PP41IS05	2	1	1	2	2	3	1	2	1	1
MI63EN02	3	3	1	1	1	2	1	1	1	1
NG420N04	2	2	1	1	1	1	1	2	2	1

CodelD	Distressed [R]	Upset [R]	Guilty [R]	Scared [R]	Hostile [R]	Irritable [R]	Ashamed [R]	Nervous [R]	Jittery [R]	Afraid [R]
VE84EL05	2	2	2	1	3	2	1	3	2	2
RT07ER09	2	2	1	2	1	2	1	2	2	2
RY26ON05	2	1	1	2	1	2	1	3	2	1
EY27EP02	1	2	1	2	1	1	1	3	2	1
MS62LD08	2	1	2	2	1	1	1	2	2	1
NE45US03	3	2	1	2	1	3	2	3	3	2
ER35ER05	1	1	1	1	1	1	1	1	1	1
RY16AU12	2	1	1	1	1	2	1	2	2	1
JO54EN02	2	2	1	1	1	1	1	1	1	1
WE48RK08	3	2	2	2	2	2	2	3	3	2
	2	1	1	2	1	2	1	1	1	1
RS27RT01	1	1	1	1	1	1	1	3	1	1
GH95OR12	2	2	1	1	1	1	1	2	1	1
TT20LA06	2	1	1	1	2	1	1	2	1	1
AN34CE07	2	1	1	1	1	2	1	4	3	2
	2	2	3	1	1	2	1	2	1	1
AN46TT10	1	1	1	1	1	1	1	1	1	1
EY51HI09	1	1	1	2	1	1	1	2	2	2
WO80CH01	1	1	1	1	1	1	1	1	1	1
	2	1	1	1	1	1	1	1	1	1
UM37ER11	2	2	1	2	3	5	3	2	2	2
IS75ER06					3	3	2	3		
BB30ER04	2	1	1	3	1	1	1	2	1	1
AN33LT07	1	2	1	1	1	2	1	2	1	1
CM01ON01	2	1	1	1	1	1	1	1	1	1
NS30CK08	1	1	1	1	1	1	1	2	1	1
EU12ER02	3	4	1	2	1	1	1	2	1	2
SU77EE03	1	1	1	1	1	1	1	1	1	1
ER50ER07	2	1	1	1	1	1	1	2	1	1
LS58IZ08	1	1	1	1	1	1	1	1	1	1
RO53KI08	1	1	1	1	1	1	1	1	1	1
RE46CK09										
AD38ER10										
DA22NK05	5	5	5	5	3	3	3	4	5	5
KR04EN04	2	1	2	2	1	1	1	1	1	1
RA20GR06	2	2	1	1	2	2	1	2	1	1
ZE56CE11										
AN97RT07										
JU46TT10	1	1	1	1	1	1	1	1	1	1
LS99LL07	1	1	1	1	1	2	2	2	2	1

CodeID	Distressed [R]	Upset [R]	Guilty [R]	Scared [R]	Hostile [R]	Irritable [R]	Ashamed [R]	Nervous [R]	Jittery [R]	Afraid [R]
NS46ND09	1	1	1	1	1	1	1	2	3	1
KI89ER12	1	1	1	1	1	2	1	1	1	1
AK12KY07	2	1	1	2	1	1	1	2	1	1
WN97AN05										
ON89EL11										
BA31DR12										
ER14NS11										
OR23ER03										
IN14CH07	2	1	1	1	1	1	1	1	1	1
BS61ER02										
LK46LK03	1	1	1	1	1	1	1	1	1	1
CE46RA09	1	1	1	1	1	1	1	2	1	1
TH79TH08	3	2	1	4	2	2	2	1	1	1
WN45ER12	3	1	3	4	5	1	1	4	5	4
RO69NO12					_					
HA27HU11	4	2	1	1	1	1	1	1	1	1
FF85RY01	3	2	1	2	1	2	1	2	2	2
LL07GE07	2	1	1	1	1	2	1	2	2	2
NR50KR05										
OP51BS10										
ER43ER01	2	2	1	1	2	2	1	2	1	1
ER03ER07										
SI58GH05										
ST39LL06	1	1	1	1	1	2	3	1	1	1
NZ61EZ06	2	1	1	2	1	1	1	2	2	1
IS91LE03	1	1	1	1	1	1	1	1	1	1
ER46CK07	2	1	1	1	1	2	1	1	1	1
TH95TE11	3	3	1	2	1	1	1	2	2	2
CE30RY07	1	1	1	1	1	2	1	3	1	1
PP76ER09								_		
ON53TE11										
EN59BE01										
TH39IS04										
TO72KE09	4	4	3	2	1	3	1	2	1	1
NE37TZ10	1	2	1	1	1	1	1	1	1	<u>_</u>
ES96RS09	'	_	'	'	'	•	<u>'</u>	<u>'</u>	•	
KI89PA01	2	2	1	1	2	2	1	1	1	1
RI92EN11	1	1	2	1	1	1	1	1	1	<del></del>
JO39HL10	1	1		'	'	'		<u>'</u>	'	
SI07CI08										

CodelD	Distressed [R]	Upset [R]	Guilty [R]	Scared [R]	Hostile [R]	Irritable [R]	Ashamed [R]	Nervous [R]	Jittery [R]	Afraid [R]
OX89MS10	1	2	3	1	1	2	1	2	1	1
YD68TH09	1	1	1	2	1	1	1	2	2	1
BA31AN08	1	1	1	1	1	1	1	1	1	1
ST89AM11										
MS62LD08	1	1	1	3	1	1	1	2	1	2
IS08TS05	1	1	1	1	1	1	1	1	1	1
AN67AL11	1	2	1	1	1	2	1	3	2	2
ER35ER05	1	1	1	1	1	1	1	1	1	1
SH02EY04	1	1	1	1	1	2	1	1	2	1
LY13IN09	1	1	1	2	1	1	1	3	1	2
RU43BU02	2	2	1	2	1	2	1	2	1	1
EM58ER09	2	2	1	1	1	1	1	1	1	1
AN70TH03	2	2	2	2	2	2	2	2	2	2
OX59LL12	2	2	2	2	2	2	2	2	2	2
ER82SH04	1	2	1	2	2	2	1	2	2	1
US22RD02	3	2	1	2	1	2	1	3	2	2
RS94SH05	1	1	1	1	1	1	1	1	1	1
US59ER11	1	2	1	1	1	1	1	2	2	1
BO20LL09	3	2	2	2	1	2	1	2	1	2
ER53LL10	1	2	1	2	1	2	1	2	2	1
KL02US10	3	2	2	2	1	1	1	2	2	1
RL49LS06	2	1	1	1	1	1	1	1	1	1
US67LL06										
OW56RE12	2	1	1	2	1	1	1	1	1	1
RS27RT01	1	2	1	1	1	2	1	1	1	1
EK59OD06										
ER03ER10	2	1	1	2	1	2	1	2	1	1
HA07ER09										

# Individual – Efficacy

CodeID	Q9	Q24	Q41	Q43 [R]	Q44	Q48
EN90ER11	6	6	6	5	4	6
ER58ON01	6	6	6	1	6	6
MS41EY07	7	7	7	2	7	7
LE24SO01	6	6	6	2	6	6
ER00EN11	6	5	5	4	5	5
LL91TH12	5	4	5	4	5	5
ER15AN02	5	6	5	2	6	5
LE23ER11	4	3	6	6	4	2
ME19ES05	6	6	6	4	6	6
DS55RN04	6	5	6	1	6	5
ER55CE03	6	5	6	3	6	3
FT69ER02	6	6	6	2	6	6
AR29LE03	6	5	6	5	5	6
WI57KE01	4	4	4	4	4	4
LL61KE12	4	5	5	4	4	4
AR46RN06	7	6	7	1	7	7
LY92ER09	6	6	6	2	6	6
TH01IN02	6	6	6	2	6	6
	5	4	6	3	6	5
NN02IS09	5	3	2	4	4	4
	5	5	6	2	6	5
NS39MS03	6	7	7	1	7	7
ER03ON10	6	5	6	2	5	3
ER10ER02	7	5	5	2	5	5
OD16TT11	6	3	6	5	6	6
TH49GE01	6	5	6	4	5	6
BA17TT10	5	5	5	3	5	5
MA41AD07	6	6	5	2	6	6
TH35ER05	6	5	5	4	6	6
LE68ER11	6	6	7	2	6	6
HU26TS06	6	5	6	2	6	6
IS42IS10	6	6	6	2	6	4
	6	5	6	4	5	5
ER97ST11	6	6	3	5	4	5
ON63NS02	6	5	6	4	6	6
PP41IS05	6	6	6	3	6	6
MI63EN02	6	5	6	2	6	6
NG420N04	7	7	7	1	7	7
VE84EL05	6	4	5	6	4	2
RT07ER09	6	6	6	2	6	6
RY26ON05	7	7	7	1	7	7
EY27EP02	2	5	1	4	5	5
MS62LD08	6	6	6	5	4	3
NE45US03	7	6	6	2	6	6

CodeID	Q9	Q24	Q41	Q43 [R]	Q44	Q48
ER35ER05	5	6	6	2	6	6
RY16AU12	6	3	5	4	4	3
JO54EN02	5	4	4	4	4	4
WE48RK08	4	6	6	3	6	6
	5	5	5	4	5	5
RS27RT01	7	6	6	1	7	7
GH95OR12	6	5	6	4	4	6
TT20LA06	6	6	7	2	6	5
AN34CE07	6	6	7	2	7	6
	4	6	6	4	5	5
AN46TT10	7	6	7	4	4	6
EY51HI09	6	6	6	2	6	6
WO80CH01	4	5	5	2	5	5
	6	6	7	4	6	6
UM37ER11	2	2	5	4	5	1
IS75ER06	3	6	6	5	5	6
BB30ER04	3	3	5	4	4	5
AN33LT07	6	6	6	4	5	6
CM01ON01	7	7	7	1	7	7
NS30CK08	6	5	5	4	5	5
EU12ER02	6	6	6	2	6	5
SU77EE03	7	7	7	1	7	7
ER50ER07	2	3	6	4	7	3
LS58IZ08	4	6	7	2	5	6
RO53KI08	7	7	7	4	7	4
RE46CK09	6	4				
AD38ER10	_					
DA22NK05	3	5	7	7	7	7
KR04EN04	7	2	5	1	7	5
RA20GR06	5	6	6	3	6	6
ZE56CE11		_				
AN97RT07	4	3			_	_
JU46TT10	6	5	7	1	7	5
LS99LL07	7	7	7	2	6	7
NS46ND09	6	7	7	2	6	7
KI89ER12	6	4	7	1	7	7
AK12KY07	4	5	4	4	4	4
WN97AN05						
ON89EL11						
BA31DR12	_					
ER14NS11	6					
OR23ER03	_	_				
IN14CH07	6	6	6	5	6	6
BS61ER02	_	_				_
LK46LK03	6	5	7	4	6	5
CE46RA09	4	4	5	3	6	6
TH79TH08	6	6	6	2	6	6

CodeID	Q9	Q24	Q41	Q43 [R]	Q44	Q48
WN45ER12	1	5	7	5	1	1
RO69NO12	'	3	<u> </u>	3	ı	<u>'</u>
HA27HU11	7	7	7	7	7	7
FF85RY01	6	5	6	4	5	5
LL07GE07	6	5	5	4	4	5
NR50KR05	7	<u> </u>			7	
OP51BS10	,					
ER43ER01	2	1	4	4	5	4
ER03ER07				-	0	Т
SI58GH05						
ST39LL06	7	7	7	2	7	7
NZ61EZ06	6	6	6	2	6	3
IS91LE03	7	7	7	1	7	7
ER46CK07	3	5	5	4	5	6
TH95TE11	5	5	5	5	5	5
CE30RY07	7	6	6	4	5	6
PP76ER09	5	0		7	3	- 0
ON53TE11	<u> </u>					
EN59BE01	4					
TH39IS04	6	6				
TO72KE09	4	5	5	3	4	5
NE37TZ10	6	6	4	4	4	4
ES96RS09	0	0	- 7	7	7	7
KI89PA01	6	6	5	2	5	6
RI92EN11	7	7	6	2	7	6
JO39HL10	,	,			1	- 0
SI07CI08						
OX89MS10	7	5	6	2	6	6
YD68TH09	6	6	7	2	7	6
BA31AN08	7	5	7	1	7	6
ST89AM11	,	<u> </u>			,	
MS62LD08	7	6	7	2	7	7
IS08TS05	6	5	5	5	5	3
AN67AL11	6	5	4	3	4	5
ER35ER05	6	6	6	2	6	6
SH02EY04	4	4	5	4	4	4
LY13IN09	5	5	6	2	6	4
RU43BU02	4	5	<u>0</u> 1	4	4	4
EM58ER09	6	6	6	3	5	5
AN70TH03	2	5	6	7	6	3
OX59LL12	5	4	7	4	5	3
ER82SH04	5	5	5	4	5	5
US22RD02	5	4	<u>5</u> 1	3	5	5
RS94SH05	6	5	4	4	4	4
US59ER11	5	5	<del></del> 6	2	6	5
BO20LL09	5	4	5	4	5	4
ER53LL10	7	6	7	2	5	6
LINOULLIU	ı	U			5	U

CodeID	Q9	Q24	Q41	Q43 [R]	Q44	Q48
KL02US10	5	5	6	3	6	5
RL49LS06	5	3	5	4	4	3
US67LL06						
OW56RE12	5	6	7	1	7	7
RS27RT01	7	7	7	2	6	6
EK59OD06						
ER03ER10	7	6	7	2	7	6
HA07ER09	6	6	6	2	6	6

### **Individual – Innovativeness**

CodeID         Q83 [R]         Q84 [R]         Q85 [R]         Q86 [R]         Q87 [R]         Q88 [R]         Q89 [R]         Q8 [R]	90 [R] 2 1 3 2 2 1 2 2 1 2 1 3 2 3 3 3 3 3 3 3
ER580N01         2         2         2         4         3         5         2         2         2         1         2         2         3         2         3         3         5         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3<	1 3 2 2 1 2 2 2 1 2 1 2 1 2 2 1 3 2 2 2 2
MS41EY07         2         5         2         4         3         5         2           LE24SO01         3         5         3         5         3         2         2         5         5         5         3         3         2         2         2         5         5         3         3         2	3 2 2 1 2 2 2 2 1 2 1 3
LE24SO01         3         5         3         5         3         2         3         2         3         2         3         3         2         2         2         1         4         4         4         4         2         2         1         4         4         4         4         2         2         1         4         4         4         2         2         1         4         4         4         4         2         2         1         4         4         4         4         2<	2 2 1 2 2 2 2 1 2 1 3
ER00EN11         3         3         3         5         4         5         3           LL91TH12         3         5         2         5         5         5         3           ER15AN02         1         2         2         2         5         3         3         2           LE23ER11         2         2         1         4         4         4         2           ME19ES05         3         5         3         5         3         5         3         5         3         3         5         3         5         3         5         3         5         3         5         3         5         3         5         3         5         3         3         5         3         5         3         5         3         3         5         3         3         5         3         3         5         3         3         5         3         3         5         3         3         5         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2	2 1 2 2 2 1 2 1 3
LL91TH12         3         5         2         5         5         5         3           ER15AN02         1         2         2         5         3         3         2           LE23ER11         2         2         1         4         4         4         4         2           ME19ES05         3         5         2         5         2         3         3         3         3	1 2 2 2 1 2 1 3
ER15AN02         1         2         2         5         3         3         2           LE23ER11         2         2         1         4         4         4         2           ME19ES05         3         5         3         5         3         5         3         5         3           DS55RN04         2         2         1         6         2         3         3         3         3         3         3         3         3         3         3	2 2 2 1 2 1 3 2
LE23ER11       2       2       1       4       4       4       2         ME19ES05       3       5       3       5       3       5       3         DS55RN04       2       2       1       6       2       2       2         ER55CE03       3       2       3       5       2       5       2         FT69ER02       2       2       2       6       1       2       2         AR29LE03       6       5       5       5       3       5       3         WI57KE01       2       4       2       4       2       5       3         LL61KE12       5       5       3       4       5       5       4         AR46RN06       1       1       1       1       1       1       1       1       1         LY92ER09       5       5       2       6       4       3       3       3         TH01IN02       2       2       2       2       2       2       2       2       2         3       6       3       3       3       3       4       3       3     <	2 2 1 2 1 3 2
ME19ES05         3         5         3         5         3         5         3         5         3         DS55RN04         2         3	2 1 2 1 3 2
DS55RN04         2         2         1         6         2         2         2           ER55CE03         3         2         3         5         2         5         2           FT69ER02         2         2         2         6         1         2         2           AR29LE03         6         5         5         5         3         5         3           WI57KE01         2         4         2         4         2         5         3           LL61KE12         5         5         3         4         5         5         4           AR46RN06         1 <t< td=""><td>1 2 1 3 2</td></t<>	1 2 1 3 2
ER55CE03       3       2       3       5       2       5       2         FT69ER02       2       2       2       6       1       2       2         AR29LE03       6       5       5       5       3       5       3         WI57KE01       2       4       2       4       2       5       3         LL61KE12       5       5       3       4       5       5       4         AR46RN06       1	2 1 3 2
FT69ER02       2       2       2       6       1       2       2         AR29LE03       6       5       5       5       3       5       3         WI57KE01       2       4       2       4       2       5       3         LL61KE12       5       5       3       4       5       5       4         AR46RN06       1       1       1       1       1       1       1       1       1         LY92ER09       5       5       2       6       4       3       3       3         TH01IN02       2       2       2       2       5       2       2       2       2         3       6       3       3       3       3       4       3       3         NN02IS09       2       2       1       6       2       2       2       2         1       2       1       7       1       2       1         NN39MS03       1       3       1       7       1       2       1         ER03ON10       2       2       2       2       2       2       2       2<	1 3 2
AR29LE03       6       5       5       5       3       5       3         WI57KE01       2       4       2       4       2       5       3         LL61KE12       5       5       3       4       5       5       4         AR46RN06       1	3 2
WI57KE01         2         4         2         4         2         5         3           LL61KE12         5         5         3         4         5         5         4           AR46RN06         1	2
LL61KE12       5       5       3       4       5       5       4         AR46RN06       1	
LL61KE12       5       5       3       4       5       5       4         AR46RN06       1	
LY92ER09       5       5       2       6       4       3       3         TH01IN02       2       2       2       5       2       2       2         3       6       3       3       3       4       3         NN02IS09       2       2       1       6       2       2       2         1       2       1       7       1       2       1         NS39MS03       1       3       1       7       1       2       1         ER03ON10       2       2       2       2       2       2       2       2         ER10ER02       2       5       3       5       2       5       2	
TH01IN02     2     2     2     5     2     2     2       3     6     3     3     3     4     3       NN02IS09     2     2     1     6     2     2     2       1     2     1     7     1     2     1       NS39MS03     1     3     1     7     1     2     1       ER03ON10     2     2     2     2     2     2       ER10ER02     2     5     3     5     2     5     2	1
3     6     3     3     4     3       NN02IS09     2     2     1     6     2     2     2       1     2     1     7     1     2     1       NS39MS03     1     3     1     7     1     2     1       ER03ON10     2     2     2     2     2     2     2       ER10ER02     2     5     3     5     2     5     2	2
3     6     3     3     4     3       NN02IS09     2     2     1     6     2     2     2       1     2     1     7     1     2     1       NS39MS03     1     3     1     7     1     2     1       ER03ON10     2     2     2     2     2     2     2       ER10ER02     2     5     3     5     2     5     2	2
NN02IS09         2         2         1         6         2         2         2           1         2         1         7         1         2         1           NS39MS03         1         3         1         7         1         2         1           ER03ON10         2         2         2         2         2         2         2           ER10ER02         2         5         3         5         2         5         2	3
1     2     1     7     1     2     1       NS39MS03     1     3     1     7     1     2     1       ER03ON10     2     2     2     2     2     2     2       ER10ER02     2     5     3     5     2     5     2	1
NS39MS03     1     3     1     7     1     2     1       ER03ON10     2     2     2     2     2     2     2       ER10ER02     2     5     3     5     2     5     2	1
ER03ON10         2         2         2         2         2         2         2         2         2           ER10ER02         2         5         3         5         2         5         2	1
ER10ER02 2 5 3 5 2 5 2	2
	1
	2
TH49GE01 3 4 4 4 4 3	2
BA17TT10 3 3 3 2 1 4 3	2
MA41AD07 2 3 2 5 2 2 2	2
TH35ER05 2 2 2 5 3 5 2	2
LE68ER11 3 5 5 4 2 3 3	2
HU26TS06 4 2 2 2 2 2 2 2	2
IS42IS10 2 2 2 4 2 2 2	2
3 4 3 5 3 4 3	2
ER97ST11 5 5 3 6 3 5 3	5
ON63NS02 6 6 5 3 6 5 4	4
PP41IS05 4 3 3 6 3 4 3	2
MI63EN02 2 4 2 5 3 4 2	
NG42ON04 2 3 2 4 3 2 2	2
VE84EL05 4 5 4 6 4 5 3	2
RT07ER09 5 5 3 5 3 5 4	
RY26ON05 1 1 1 7 1 2 1	3
EY27EP02 3 5 3 3 5 3	3
MS62LD08 2 2 1 6 1 1 1	1
NE45US03 2 2 3 3 3 3 3	

CodeID	Q83 [R]	Q84 [R]	Q85 [R]	Q86 [R]	Q87 [R]	Q88 [R]	Q89 [R]	Q90 [R]
ER35ER05	2	5	4 Q05 [K]		3	Q00 [K] 5	3	
RY16AU12	4	5	4	5 5	4	<u> </u>	4	2
	5	5	4	5	4	4	4	3
JO54EN02								
WE48RK08	3 2	3	2	5	3 2	3 2	3	2
DC07DT04	1		3				2	
RS27RT01		1	1	6	1	1	1	1
GH95OR12	3	2	3	5	4	4	3	1
TT20LA06	6 2	6 5	5 2	5	5 2	<u>6</u> 5	6	6
AN34CE07				6			3	3
ANIAOTTAO	3	3	3	5	4	3	2	2
AN46TT10	2	1	1	1	2	2	1	1
EY51HI09	2	3	2	3	3	3	2	1
WO80CH01	2	2	2	5	2	3	2	2
	2	5	4	6	2	4	2	1
UM37ER11	3	3	3	5	5	5	3	2
IS75ER06	3	5	2	6	3	5	3	2
BB30ER04	2	4	2	6	2	5	2	2
AN33LT07	2	2	2	6	2	2	2	1
CM01ON01	3	2	2	6	2	2	1	2
NS30CK08	3	3	3	3	3	3	3	2
EU12ER02	2	2	2	6	5	3	3	3
SU77EE03	1	2	1	7	1	1	1	1
ER50ER07	2	2	2	2	2	2	2	1
LS58IZ08	2	2	2	6	2	2	2	2
RO53KI08	1	1	1	7	1	1	1	1
RE46CK09								
AD38ER10								
DA22NK05	1	7	1	7	7	1	1	1
KR04EN04	1	1	1	2	1	1	1	1
RA20GR06	2	2	2	6	1	5	3	1
ZE56CE11								
AN97RT07								
JU46TT10	1	1	1	1	1	1	1	1
LS99LL07	1	1	1	6	2	1	1	1
NS46ND09	1	1	1	6	2	1	2	1
KI89ER12	1	1	1	7	1	1	1	1
AK12KY07	2	2	2	5	2	2	2	2
WN97AN05								
ON89EL11								
BA31DR12								
ER14NS11								
OR23ER03								
IN14CH07	3	2	1	6	2	2	2	1
BS61ER02								
LK46LK03	3	5	2	6	3	3	2	2
CE46RA09	3	3	3	5	3	3	3	2
TH79TH08	2	2	2	6	2	2	2	2

CadalD	000 IDI	004 IDI	005 ID1	000 ID1	007 ID1	000 ID1	000 ID1	000 IDI
CodeID	Q83 [R]	Q84 [R]	Q85 [R]	Q86 [R]	Q87 [R]	Q88 [R]	Q89 [R]	Q90 [R]
WN45ER12	3	5	3	7	4	5	3	3
RO69NO12	1	7		7	7			4
HA27HU11	1		6			6	6	1
FF85RY01	3	2	2	6	2	2	2	3
LL07GE07	3	3	2	5	6	3	3	3
NR50KR05								
OP51BS10	0	4	0		0	0	0	
ER43ER01	2	1	2	6	2	2	2	1
ER03ER07								
SI58GH05								
ST39LL06	1	2	1	6	2	2	1	1
NZ61EZ06	3	3	3	5	3	3	3	3
IS91LE03	1	1	1	6	1	1	1	1
ER46CK07	5	5	5	2	5	5	4	4
TH95TE11	4	5	4	3	5	5	4	4
CE30RY07	1	2	2	5	2	6	3	3
PP76ER09								
ON53TE11								
EN59BE01								
TH39IS04								
TO72KE09	5	5	5	3	3	5	5	3
NE37TZ10	2	4	2	2	3	2	1	1
ES96RS09								
KI89PA01	3	3	3	3	2	2	2	1
RI92EN11	1	1	1	7	1	1	1	1
JO39HL10								
SI07CI08								
OX89MS10	2	2	2	5	2	2	2	2
YD68TH09	2	2	2	5	1	2	2	2
BA31AN08	2	2	2	3	1	2	1	1
ST89AM11								
MS62LD08	2	2	1	5	1	3	2	1
IS08TS05	3	2	3	5	2	2	2	1
AN67AL11	3	2	1	2	3	5	2	2
ER35ER05	2	3	2	4	3	4	2	2
SH02EY04	4	5	5	2	5	5	5	3
LY13IN09	3	5	4	3	3	4	3	2
RU43BU02	3	6	2	5	3	5	2	2
EM58ER09	2	2	2	5	2	2	2	2
AN70TH03	4	4	4	4	4	4	4	4
OX59LL12	1	1	1	7	1	1	1	1
ER82SH04	5	5	5	5	5	5	6	2
US22RD02	3	4	3	5	3	3	3	3
RS94SH05	2	4	4	4	4	4	4	2
US59ER11	3	3	3	5	3	3	2	2
BO20LL09	5	4	4	5	4	4	3	2
ER53LL10	3	3	1	5	2	4	1	1

CodeID	Q83 [R]	Q84 [R]	Q85 [R]	Q86 [R]	Q87 [R]	Q88 [R]	Q89 [R]	Q90 [R]
KL02US10	5	5	5	5	5	5	3	3
RL49LS06	4	5	4	5	3	3	3	3
US67LL06								
OW56RE12	2	2	2	6	2	2	2	2
RS27RT01	1	1	1	7	1	1	1	1
EK59OD06								
ER03ER10	5	2	3	6	5	4	2	2
HA07ER09								

Individual – Change Commitment (Affective)

CodeID	Q5	Q7 [R]	Q32 [R]	Q40	Q42 [R]	Q46
EN90ER11	5	1	1	6	1	6
ER58ON01	6	2	1	6	1	6
MS41EY07	5	3	4	5	2	4
LE24SO01	5	2	2	5	5	5
ER00EN11	5	3	3	5	4	5
LL91TH12	5	3	2	5	2	5
ER15AN02	6	3	4	4	4	5
LE23ER11	6	2	2	6	2	6
ME19ES05	5	2	3	6	2	5
DS55RN04	6	2	2	6	2	6
ER55CE03	7	2	2	6	1	6
FT69ER02	7	2	2	6	3	6
AR29LE03	5	2	3	5	3	6
WI57KE01	5	2	4	4	4	4
LL61KE12	5	3	4	4	4	4
AR46RN06	6	2	2	5	2	6
LY92ER09	5	2	3	5	3	5
TH01IN02	6	1	2	6	2	6
	5	3	4	4	4	4
NN02IS09	5	3	4	5	3	4
	5	1	2	5	2	4
NS39MS03	7	1	1	6	2	7
ER03ON10	6	2	2	6	6	6
ER10ER02	7	2	1	6	2	6
OD16TT11	5	3	2	5	2	6
TH49GE01	6	2	4	3	4	4
BA17TT10	6	3	4	5	3	5
MA41AD07	6	2	2	6	2	6
TH35ER05	6	2	4	4	3	5
LE68ER11	4	4	2	4	4	4
HU26TS06	6	1	4	6	2	6
IS42IS10	6	2	3	6	4	4
	6	2	3	5	3	5
ER97ST11	7	2	2	5	3	6
ON63NS02	6	2	4	4	4	4
PP41IS05	5	2	3	6	3	6
MI63EN02	6	1	2	6	1	6
NG420N04	6	2	1	6	2	7
VE84EL05	5	4	4	3	4	4
RT07ER09	7	2	2	6	2	6
RY26ON05	5	2	4	4	2	6
EY27EP02	5	3	3	5	3	5
MS62LD08	7	2	1	7	1	7
NE45US03	7	2	3	6	2	6

CodeID	Q5	Q7 [R]	Q32 [R]	Q40	Q42 [R]	Q46
ER35ER05	6	2	2	6	1	6
RY16AU12	5	3	4	5	4	5
JO54EN02	5	3	4	4	4	4
WE48RK08	7	1	2	7	2	7
	4	4	4	4	4	4
RS27RT01	6	2	2	6	4	6
GH95OR12	6	1	2	6	2	6
TT20LA06	5	3	2	5	3	5
AN34CE07	6	1	1	6	2	7
	6	2	3	4	4	4
AN46TT10	7	1	2	4	4	4
EY51HI09	5	3	3	5	3	5
WO80CH01	5	3	2	5	3	4
	7	2	4	6	4	4
UM37ER11	4	3	1	1	5	2
IS75ER06	6	2	1	6	1	6
BB30ER04	7	2	4	6	2	6
AN33LT07	6	2	2	6	2	6
CM01ON01	7	2	1	6	2	6
NS30CK08	5	2	2	5	3	5
EU12ER02	6	2	2	6	2	6
SU77EE03	7	1	1	7	1	7
ER50ER07	6	3	3	5	3	4
LS58IZ08	6	3	3	5	4	4
RO53KI08	7	1	1	6	4	7
RE46CK09	7	2	2	6		
AD38ER10						
DA22NK05	3	4	2	4	1	7
KR04EN04	7	1	2	6	1	6
RA20GR06	7	2	2	6	2	6
ZE56CE11	_					
AN97RT07	7	2	4	4		
JU46TT10	5	4	2	5	2	5
LS99LL07	7	1	1	7	1	7
NS46ND09	7	1	1	7	1	7
KI89ER12	7	1	1	7	1	7
AK12KY07	5	4	4	4	3	5
WN97AN05						
ON89EL11						
BA31DR12	-					
ER14NS11	7	2				
OR23ER03		4		^		
IN14CH07	5	1	2	6	2	6
BS61ER02		1		•		
LK46LK03	6	1	2	6	2	6
CE46RA09	5	3	3	5	3	5
TH79TH08	6	2	2	6	3	6

CodeID	Q5	Q7 [R]	Q32 [R]	Q40	Q42 [R]	Q46
WN45ER12	1	1	1	1	7	1
RO69NO12						
HA27HU11	7	1	1	7	1	7
FF85RY01	6	2	2	6	3	6
LL07GE07	6	1	2	6	3	6
NR50KR05	7	2				
OP51BS10						
ER43ER01	2	4	4	4	4	2
ER03ER07						
SI58GH05						
ST39LL06	7	1	1	7	4	7
NZ61EZ06	6	2	2	6	2	6
IS91LE03	7	1	1	7	1	7
ER46CK07	3	4	4	2	5	4
TH95TE11	5	3	3	5	4	6
CE30RY07	6	2	2	6	2	6
PP76ER09	4	4				
ON53TE11						
EN59BE01	6	2				
TH39IS04	6	2	2	5		
TO72KE09	5	3	3	4	4	4
NE37TZ10	5	2	3	4	3	4
ES96RS09						
KI89PA01	6	3	3	5	3	6
RI92EN11	7	1	1	7	1	7
JO39HL10						
SI07CI08						
OX89MS10	6	1	2	6	3	6
YD68TH09	6	2	2	6	2	4
BA31AN08	6	3	2	6	3	6
ST89AM11						
MS62LD08	7	2	2	7	2	6
IS08TS05	7	1	3	6	2	6
AN67AL11	6	2	3	5	3	5
ER35ER05	6	2	2	6	2	6
SH02EY04	5	2	4	5	3	4
LY13IN09	6	5	4	5	4	4
RU43BU02	5	4	3	5	4	5
EM58ER09	7	1	2	4	3	5
AN70TH03	6	2	2	6	2	5
OX59LL12	4	2	2	5	5	5
ER82SH04	6	3	3	5	3	5
US22RD02	5	3	3	4	3	5
RS94SH05	6	2	3	5	4	5
US59ER11	6	2	2	5	3	5
BO20LL09	5	3	4	4	4	4
ER53LL10	7	1	1	7	1	6

CodeID	Q5	Q7 [R]	Q32 [R]	Q40	Q42 [R]	Q46
KL02US10	6	5	4	5	5	4
RL49LS06	7	3	4	5	4	5
US67LL06						
OW56RE12	6	2	1	5	5	7
RS27RT01	6	1	1	6	1	6
EK59OD06						
ER03ER10	7	1	2	6	3	5
HA07ER09	6	2	2	6	2	6

**Individual – Change Commitment (Continuance)** 

CodeID	Q2	Q14	Q15	Q31	Q33	Q45
EN90ER11	4	4	3	2	4	4
ER58ON01	3	3	4	2	2	4
MS41EY07	6	6	2	2	2	2
LE24SO01	3	5	2	2	2	2
ER00EN11	6	4	5	4	3	4
LL91TH12	4	5	4	2	2	5
ER15AN02	2	5	4	5	4	2
LE23ER11	7	7	4	6	3	4
ME19ES05	5	5	3	4	4	4
DS55RN04	6	5	6	5	3	6
ER55CE03	5	6	3	5	5	5
FT69ER02	3	3	5	3	2	2
AR29LE03	5	3	5	5	7	5
WI57KE01	7	5	4	3	4	4
LL61KE12	5	4	4	3	4	4
AR46RN06	4	6	4	4	3	4
LY92ER09	6	6	6	4	6	6
TH01IN02	2	7	4	2	1	2
	6	4	4	5	4	3
NN02IS09	5	3	2	2	6	4
	2	6	4	2	2	4
NS39MS03	7	6	5	2	7	6
ER03ON10	6	6	6	5	2	6
ER10ER02	5	7	4	2	2	1
OD16TT11	6	6	6	5	6	4
TH49GE01	6	6	6	5	6	6
BA17TT10	6	7	7	7	7	7
MA41AD07	4	6	5	4	3	5
TH35ER05	5	6	2	3	3	4
LE68ER11	5	6	6	4	4	6
HU26TS06	6	1	1	4	4	2
IS42IS10	4	2	2	2	2	2
	6	5	4	4	2	3
ER97ST11	3	4	4	4	6	5
ON63NS02	6	4	4	2	5	4
PP41IS05	3	6	4	4	4	3
MI63EN02	5	6	4	5	4	2
NG420N04	4	7	4	1	1	4
VE84EL05	6	5	4	7	7	5
RT07ER09	3	6	6	5	2	6
RY26ON05	5	7	7	4	6	7
EY27EP02	6	4	4	5	6	3
MS62LD08	2	4	6	3	6	6
NE45US03	5	6	2	5	5	4

ER35ER05   5	CodeID	Q2	Q14	Q15	Q31	Q33	Q45
RY16AU12							-
JO54EN02							
WE48RK08	-	1					
RS27RT01							
RS27RT01	VVETORITOO						
GH95OR12	RS27RT01						
TT20LA06							
AN34CE07							
AN46TT10							
AN46TT10			4				
WO80CH01         6         5         5         2         1         1           WM37ER11         6         4         4         6         6           IS75ER06         3         5         5         4         1         4           BB30ER04         7         6         4         7         6         5           AN33LT07         4         4         2         2         4         4           CM010N01         2         3         2         1         1         2           NS30CK08         2         6         2         4         3         3         3           EU12ER02         6         6         6         5         7         6         6         5         7         6         1         2         2         4         3         3         3         4         4         2	AN46TT10		6		4		
T	EY51HI09	5	5	5	5	3	3
UM37ER11         6         6         4         7         7         6           IS75ER06         3         5         5         4         1         4           BB30ER04         7         6         4         7         6         5           AN33LT07         4         4         2         2         4         4           CM010N01         2         3         2         1         1         2           NS30CK08         2         6         2         4         3         3           EU12ER02         6         6         6         5         7         6           SU77EE03         7         7         1         5         6         1           SU77EE03         7         7         1         5         6         1         4           LS58IZ08         3         4         4         2         2         2         2           RO53K108         4         4         1         1         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         2	WO80CH01	6	5	5	2	1	1
IS75ER06		7	6	4	4	6	6
BB30ER04         7         6         4         7         6         5           AN33LT07         4         4         2         2         4         4           CM01ON01         2         3         2         1         1         2           NS30CK08         2         6         2         4         3         3           EU12ER02         6         6         6         5         7         6           SU77EE03         7         7         1         5         6         1           ES50ER07         5         3         3         3         3         4           LS58IZ08         3         4         4         2         2         2           RO53KI08         4         4         1         1         4         4           RE46CK09         3         7         6         6         5         A           AD38ER10         0         0         0         0         0         0         0         0         0         0         0         0         0         1         1         1         1         1         1         1         1         1	UM37ER11	6	6	4	7	7	6
AN33LT07	IS75ER06	3	5	5	4	1	4
CM010N01         2         3         2         1         1         2           NS30CK08         2         6         2         4         3         3           EU12ER02         6         6         6         5         7         6           SU77EE03         7         7         1         5         6         1           ER50ER07         5         3         3         3         3         3         4           LS58IZ08         3         4         4         2         2         2         2           RO53KI08         4         4         1         1         4         3         2         2         3         3         3         3         3 <t< td=""><td>BB30ER04</td><td>7</td><td>6</td><td>4</td><td>7</td><td>6</td><td>5</td></t<>	BB30ER04	7	6	4	7	6	5
NS30CK08	AN33LT07	4	4	2	2	4	4
EU12ER02         6         6         6         5         7         6           SU77EE03         7         7         1         5         6         1           ER50ER07         5         3         3         3         3         4           LS58IZ08         3         4         4         2         2         2           RO53KI08         4         4         1         1         4         4           RE46CK09         3         7         6         6         5	CM01ON01	2	3	2	1	1	
SU77EE03         7         7         1         5         6         1           ER50ER07         5         3         3         3         3         4           LS58IZ08         3         4         4         2         2         2           RO53KI08         4         4         1         1         4         4           RE46CK09         3         7         6         6         5	NS30CK08	2	6	2	4		
ER50ER07         5         3         3         3         4           LS58IZ08         3         4         4         2         2         2           RO53KI08         4         4         1         1         4         4           RE46CK09         3         7         6         6         5		6	6	6	5	7	6
LS58IZ08	SU77EE03	7					
RO53KI08	-						
RE46CK09 3 7 6 6 5  AD38ER10  DA22NK05 6 4 3 2 3 7  KR04EN04 1 6 3 2 1 1  RA20GR06 2 5 4 2 3 3  ZE56CE11  AN97RT07 4 4 4 5 4  JU46TT10 3 2 2 4 2 1  LS99LL07 5 7 1 5 2 6  NS46ND09 3 6 6 2 1 1  KI89ER12 2 4 2 4 1 2  AK12KY07 4 4 3 3 3 3 4  WN97AN05  ON89EL11  BA31DR12  ER14NS11 6 5 4  OR23ER03  IN14CH07 5 6 2 4 2 2  BS61ER02  LK46LK03 6 7 5 5 4 5  CE46RA09 6 5 4 4 5							
AD38ER10  DA22NK05  6  4  3  2  3  7  KR04EN04  1  6  3  2  1  1  RA20GR06  2  5  4  2  3  3  ZE56CE11  AN97RT07  4  4  4  4  5  4  JU46TT10  3  2  2  4  2  1  LS99LL07  5  7  1  5  2  6  NS46ND09  3  6  6  2  1  1  KI89ER12  2  4  2  4  1  2  AK12KY07  4  4  3  3  3  4  WN97AN05  ON89EL11  BA31DR12  ER14NS11  6  5  4  CR23ER03  IN14CH07  5  6  7  5  6  7  7  8  8  8  8  8  8  8  8  8  8  8							4
DA22NK05         6         4         3         2         3         7           KR04EN04         1         6         3         2         1         1           RA20GR06         2         5         4         2         3         3           ZE56CE11         AN97RT07         4         4         4         5         4           JU46TT10         3         2         2         4         2         1            LS99LL07         5         7         1         5         2         6           NS46ND09         3         6         6         2         1         1           KI89ER12         2         4         2         4         1         2           AK12KY07         4         4         3         3         3         4           WN97AN05         ON89EL11           BA31DR12         ER14NS11         6         5         4         4         2         2         2           BS61ER02         LK46LK03         6         7         5         5         4         5         4           CE46RA09         6         5		3	7	6	6	5	
KR04EN04       1       6       3       2       1       1         RA20GR06       2       5       4       2       3       3         ZE56CE11       AN97RT07       4       4       4       5       4         JU46TT10       3       2       2       4       2       1         LS99LL07       5       7       1       5       2       6         NS46ND09       3       6       6       2       1       1         KI89ER12       2       4       2       4       1       2         AK12KY07       4       4       3       3       3       3       4         WN97AN05       ON89EL11         BA31DR12       ER14NS11       6       5       4       4       2       2       4       2       2         ER14NS11       6       5       4       0							
RA20GR06 2 5 4 2 3 3 3  ZE56CE11							
ZE56CE11       4       4       4       4       5       4         JU46TT10       3       2       2       4       2       1         LS99LL07       5       7       1       5       2       6         NS46ND09       3       6       6       2       1       1         KI89ER12       2       4       2       4       1       2         AK12KY07       4       4       3       3       3       4         WN97AN05       0N89EL11							
AN97RT07		2	5	4	2	3	3
JU46TT10       3       2       2       4       2       1         LS99LL07       5       7       1       5       2       6         NS46ND09       3       6       6       2       1       1         KI89ER12       2       4       2       4       1       2         AK12KY07       4       4       3       3       3       4         WN97AN05       0							
LS99LL07 5 7 1 5 2 6 NS46ND09 3 6 6 2 1 1 KI89ER12 2 4 2 4 1 2 AK12KY07 4 4 3 3 3 3 4 WN97AN05							
NS46ND09       3       6       6       2       1       1         KI89ER12       2       4       2       4       1       2         AK12KY07       4       4       3       3       3       4         WN97AN05       0089EL11							
KI89ER12       2       4       2       4       1       2         AK12KY07       4       4       3       3       3       4         WN97AN05       0							
AK12KY07							
WN97AN05 ON89EL11 BA31DR12 ER14NS11 GR23ER03 IN14CH07 SGR23ER02 LK46LK03 GGR23ER03 GGR		1					
ON89EL11         BA31DR12           ER14NS11         6         5         4           OR23ER03         IN14CH07         5         6         2         4         2         2           BS61ER02         EK46LK03         6         7         5         5         4         5           CE46RA09         6         5         4         4         5         4		4	4	3	3	3	4
BA31DR12 ER14NS11 6 5 4  OR23ER03 IN14CH07 5 6 2 4 2 2  BS61ER02 LK46LK03 6 7 5 5 4 5  CE46RA09 6 5 4 4 5 4							
ER14NS11       6       5       4							
OR23ER03		6		A			
IN14CH07       5       6       2       4       2       2         BS61ER02		Ö	5	4			
BS61ER02		_	6	2	1	2	2
LK46LK03     6     7     5     5     4     5       CE46RA09     6     5     4     4     5     4		5	Ö		4	۷	۷
CE46RA09 6 5 4 4 5 4		6	7	5	5	1	5
		1					
A = A + A + A + A + A + A + A + A + A +	TH79TH08	4	5	6	4	6	4

CodeID	Q2	Q14	Q15	Q31	Q33	Q45
WN45ER12	7	7	7	7	7	7
RO69NO12	•	•			•	•
HA27HU11	1	7	5	4	1	1
FF85RY01	7	6	6	5	3	6
LL07GE07	5	6	6	2	3	3
NR50KR05	7	6	6		-	
OP51BS10		-				
ER43ER01	2	4	4	2	6	4
ER03ER07						
SI58GH05						
ST39LL06	4	7	7	4	4	4
NZ61EZ06	3	2	2	2	2	2
IS91LE03	1	2	2	1	1	1
ER46CK07	5	5	4	4	3	4
TH95TE11	5	5	4	5	5	5
CE30RY07	5	1	2	5	6	5
PP76ER09	6	5	3			
ON53TE11						
EN59BE01	3	5	3			
TH39IS04	3	4	4	2	2	
TO72KE09	4	4	4	5	6	5
NE37TZ10	3	5	4	2	4	4
ES96RS09						
KI89PA01	6	6	6	4	2	5
RI92EN11	3	7	7	3	3	5
JO39HL10						
SI07CI08						
OX89MS10	6	6	6	3	2	3
YD68TH09	6	5	3	3	2	5
BA31AN08	2	3	2	3	2	2
ST89AM11						
MS62LD08	5	3	6	4	3	4
IS08TS05	5	5	5	4	1	3
AN67AL11	3	4	5	2	3	4
ER35ER05	2	4	6	2	2	4
SH02EY04	6	4	4	4	4	4
LY13IN09	4	4	3	2	5	4
RU43BU02	2	2	2	2	5	2
EM58ER09	2	2	2	2	2	3
AN70TH03	6	6	6	2	4	1
OX59LL12	5	4	2	6	4	5
ER82SH04	3	3	4	5	2	5
US22RD02	4	5	5	4	4	4
RS94SH05	4	4	4	4	4	4
US59ER11	2	4	4	2	2	2
BO20LL09	7	6	5	4	5	4
ER53LL10	2	4	4	5	2	4

CodeID	Q2	Q14	Q15	Q31	Q33	Q45
KL02US10	5	6	5	6	7	6
RL49LS06	5	3	3	5	5	4
US67LL06						
OW56RE12	6	6	2	3	1	1
RS27RT01	2	7	7	2	1	6
EK59OD06						
ER03ER10	6	6	2	3	2	2
HA07ER09	4	6	6	2	5	2

**Individual – Change Commitment (Normative)** 

CodeID	Q20	Q30	Q39	Q53 [R]	Q53-R	Q57	Q58 [R]	Q58-R
EN90ER11	4	6	4	4	4	4	4	4
ER580N01	2	6	4	3	5	6	1	7
MS41EY07	2	2	3	2	6	3	6	2
LE24SO01	2	5	3	4	4	5	5	3
ER00EN11	4	5	5	5	3	5	4	4
LL91TH12	4	6	5	5	3	<u> </u>	3	5
ER15AN02	2	3	4	5	3	4	4	4
LE23ER11	7	6	6	4	4	6	2	6
ME19ES05	4	6	5	3	5	5	3	5
DS55RN04	4	5	6	3	5	5	3	5
ER55CE03	3	6	5	6	2	5	1	7
FT69ER02	2	6	3	3	5	<u>5</u>	2	6
AR29LE03	3	5	5	5	3	5	3	5
WI57KE01	2	4	4	4	4	4	4	4
LL61KE12	3	4	4	4	4	4	4	4
AR46RN06	4	4	4	4	4	4	2	6
LY92ER09	6	5	6	2	6	6	2	6
TH01IN02	1	<u>5</u>	5	2	6	6	2	6
1110111102	2	4	4	6	2	4	5	3
NN02IS09	2	3	5	5	3	3	5	3
101021309	2	<u>5</u>	5	4	4		2	6
NS39MS03	1	3	1	7	1	1	3	5
ER030N10	4	6	5	5	3	6	2	6
ER10ER02	1	5	2	6	2	2	2	6
OD16TT11	6	6	6	6	2	6	2	6
TH49GE01	5	4	3	3	5	3	4	4
BA17TT10	4	6	7	2	6	7	2	6
MA41AD07	4	6	5	3	5	6	3	5
TH35ER05	2	3	4	4	4	5	3	5
LE68ER11	7	6	7	1	7		3	
HU26TS06	1	6	5	4	4	2	2	6
IS42IS10	2	6	3	6	2	6	2	6
10421010	4	4	3	6	2	3	3	5
ER97ST11	6	6	6	2	6	6	2	6
ON63NS02	4	4	5	3	5	4	4	4
PP41IS05	4	4	4	4	4	4	4	4
MI63EN02	6	4	5	3	5	3	3	5
NG420N04	3	7	2	5	3	5	5	3
VE84EL05	5	4	6	3	5	4	5	3
RT07ER09	5	6	6	2	6	6	2	6
RY26ON05	4	4	7	2	6	6	2	6
EY27EP02	3	5	3	6	2	5	5	3
MS62LD08	1	7	6	3	5	7	2	6
NE45US03	5	6	5	4	4	<i>1</i> 5	3	5
INE45U5U3	5	Ö	၂	4	4	ວ	3	5

CodeID	Q20	Q30	Q39	Q53 [R]	Q53-R	Q57	Q58 [R]	Q58-R
ER35ER05	2	6	4	2	6	2	2	6
RY16AU12	4	4	6	3	5	4	3	5
JO54EN02	4	4	4	4	4	4	3	5
WE48RK08	1	7	7	2	6	7	2	6
VLTORROO	6	6	6	2	6	6	2	6
RS27RT01	1	6	1	7	1	5	2	6
GH95OR12	4	4	6	3	5	6	2	6
TT20LA06	2	6	4	6	2	5	3	5
AN34CE07	2	6	4	5	3	5	2	6
741010201	2	5	4	4	4	4	3	5
AN46TT10	2	4	2	6	2	2	4	4
EY51HI09	3	6	3	3	5	3	3	5
WO80CH01	2	5	5	2	6	4	3	5
***************************************	2	4	6	4	4	7	2	6
UM37ER11	3	1	3	5	3	5	5	3
IS75ER06	4	6	6	3	5	5	5	3
BB30ER04	4	5	4	3	5	5	2	6
AN33LT07	4	5	6	2	6	4	2	6
CM01ON01	2	7	1	7	1	<del></del>	1	7
NS30CK08	6	4	3	5	3	3	5	3
EU12ER02	6	6	6	2	6	6	2	6
SU77EE03	5	5	1	7	1	<u></u>	3	5
ER50ER07	2	3	3	5	3	5	2	6
LS58IZ08	2	4	4	2	6	4	3	5
RO53KI08	1	7	4	1	7	<u>+</u> 1	4	4
RE46CK09	4	5	5	ı	- 1	<u> </u>	7	7
AD38ER10	7	<u> </u>	<u> </u>					
DA22NK05	7	1	5	2	6	4	3	5
KR04EN04	1	6	1	1	7	<del></del> 1	1	7
RA20GR06	2	5	6	3	5	5	3	5
ZE56CE11	2	3	0	3	3		3	
AN97RT07	2	4	4					
JU46TT10	3	4	2	7	1	1	2	6
LS99LL07	6	7	6	2	6	6	2	6
NS46ND09	5	6	6	6	2	<u>0</u> 1	1	7
KI89ER12	2	6	3	2	6	4	4	4
AK12KY07	3	4	4	4	4	4	5	3
WN97AN05	3	7		7	-	- 7	<u> </u>	3
ON89EL11								
BA31DR12								
ER14NS11								
OR23ER03								
IN14CH07	2	5	2	4	4	2	4	4
BS61ER02		<u> </u>		4	4		4	4
LK46LK03	5	6	6	4	4	4	3	5
CE46RA09	4	5	4	4	4	<u>4</u> 5	3	5 5
TH79TH08	4	5 6	6	4	4	<u>5</u> 6	6	2
111811100	4	Ö	Ö	4	4	О	Ö	

CodeID	Q20	Q30	Q39	Q53 [R]	Q53-R	Q57	Q58 [R]	Q58-R
WN45ER12	4	1	4	1	7	4	7	1
RO69NO12	-				-			
HA27HU11	7	7	1	7	1	7	1	7
FF85RY01	2	4	2	3	5	4	6	2
LL07GE07	5	6	6	4	4	5	3	5
NR50KR05		-		-	-			
OP51BS10								
ER43ER01	1	1	2	5	3	2	6	2
ER03ER07					_			
SI58GH05								
ST39LL06	4	4	4	1	7	6	2	6
NZ61EZ06	2	5	2	3	5	2	2	6
IS91LE03	1	7	4	7	1	1	1	7
ER46CK07	2	4	2	6	2	2	5	3
TH95TE11	3	5	4	3	5	5	3	5
CE30RY07	1	6	6	4	4	7	1	7
PP76ER09	-	-		-	-	<u> </u>	-	-
ON53TE11								
EN59BE01								
TH39IS04	2	5	2					
TO72KE09	4	4	5	3	5	5	4	4
NE37TZ10	4	3	4	4	4	4	4	4
ES96RS09								
KI89PA01	5	5	5	2	6	5	5	3
RI92EN11	1	7	3	6	2	7	1	7
JO39HL10								
SI07CI08								
OX89MS10	4	6	2	5	3	6	2	6
YD68TH09	2	7	5	2	6	6	2	6
BA31AN08	2	3	6	1	7	6	2	6
ST89AM11								
MS62LD08	3	7	6	3	5	5	1	7
IS08TS05	1	5	4	3	5	5	3	5
AN67AL11	4	5	4	4	4	4	4	4
ER35ER05	4	6	4	3	5	5	3	5
SH02EY04	4	4	4	4	4	4	4	4
LY13IN09	5	6	6	4	4	4	4	4
RU43BU02	2	2	5	5	3	2	6	2
EM58ER09	2	6	3	5	3	3	5	3
AN70TH03	4	4	6	1	7	7	2	6
OX59LL12	2	5	4	4	4	3	4	4
ER82SH04	6	5	6	3	5	5	3	5
US22RD02	3	4	4	4	4	5	3	5
RS94SH05	4	4	4	4	4	4	4	4
US59ER11	2	4	4	2	6	3	2	6
BO20LL09	5	5	5	3	5	5	3	5
ER53LL10	3	6	6	2	6	6	2	6

CodeID	Q20	Q30	Q39	Q53 [R]	Q53-R	Q57	Q58 [R]	Q58-R
KL02US10	5	5	7	4	4	4	2	6
RL49LS06	4	1	4	4	4	4	4	4
US67LL06								
OW56RE12	4	4	5	6	2	5	2	6
RS27RT01	4	6	6	4	4	5	1	7
EK59OD06								
ER03ER10	6	6	2	6	2	5	2	6
HA07ER09	6	6	6	2	6	6	2	6

#### Individual – Pessimism

CodeID	Q22 [R]	Q59 [R]	Q61 [R]	Q67 [R]
EN90ER11	2	2	2	3
ER58ON01	2	2	2	4
MS41EY07	6	6	6	7
LE24SO01	2	3	5	5
ER00EN11	3	6	4	4
LL91TH12	2	2	2	3
ER15AN02	2	5	3	4
LE23ER11	5	6	2	3
ME19ES05	2	3	2	3
DS55RN04	2	3	2	3
ER55CE03	2	3	2	3
FT69ER02	1	5	2	2
AR29LE03	5	5	6	6
WI57KE01	4	4	4	4
LL61KE12	3	3	3	4
AR46RN06	2	2	2	3
LY92ER09	4	5	4	5
TH01IN02	2	4	2	5
	4	5	5	5
NN02IS09	4	4	5	3
	3	3	3	5
NS39MS03	3	6	6	7
ER03ON10	2	2	2	2
ER10ER02	2	3	5	2
OD16TT11	2	3	2	3
TH49GE01	2	4	5	6
BA17TT10	2	4	4	4
MA41AD07	3	3	3	3
TH35ER05	4	5	4	3
LE68ER11	3	4	4	3
HU26TS06	1	2	2	2
IS42IS10	2	4	2	4
	3	4	2	3
ER97ST11	2	4	5	5
ON63NS02	4	5	4	5
PP41IS05	3	4	3	4
MI63EN02	2	4	3	4
NG420N04	2	3	3	3
VE84EL05	5			6
RT07ER09	2	2	2	3
RY26ON05	5	5	3	3
EY27EP02	3	5	3	5
MS62LD08	1	1	1	2
NE45US03	2	5	3	5

0 1 15	000 (D)	050 501	004 [D]	007 (D)
CodeID	Q22 [R]	Q59 [R]	Q61 [R]	Q67 [R]
ER35ER05	2	2	2	2
RY16AU12	3	4	4	4
JO54EN02	3	4	4	5
WE48RK08	2	2	1	3
DOOTDTOA	3	4	3	4
RS27RT01	1	1	1	2
GH95OR12	2	3	2	4
TT20LA06	2	3	5	4
AN34CE07	1	2	1	3
	2	4	4	3
AN46TT10	1	4	2	2
EY51HI09	2	3	2	3
WO80CH01	4	2	2	4
	1	4	4	4
UM37ER11	2	7	6	3
IS75ER06	1	2	2	2
BB30ER04	4	3	4	4
AN33LT07	2	5	3	2
CM01ON01	2	2	1	2
NS30CK08	7	5	2	5
EU12ER02	1	5	2	6
SU77EE03	5	6	6	6
ER50ER07	3	6	5	5
LS58IZ08	2	4	5	5
RO53KI08	1	6	7	7
RE46CK09	6			
AD38ER10				
DA22NK05	2	4	4	1
KR04EN04	1	1	1	1
RA20GR06	2	5	2	2
ZE56CE11				
AN97RT07	4			
JU46TT10	2	4	1	1
LS99LL07	1	4	2	1
NS46ND09	3	2	1	2
KI89ER12	2	2	1	1
AK12KY07	3	4	4	3
WN97AN05				
ON89EL11				
BA31DR12				
ER14NS11				
OR23ER03				
IN14CH07	3	5	5	2
BS61ER02				
LK46LK03	2	5	2	5
CE46RA09	3	4	4	3
TH79TH08	6	4	3	3

CodeID	Q22 [R]	Q59 [R]	Q61 [R]	Q67 [R]
WN45ER12	7	7	7	7
RO69NO12				
HA27HU11	7	4	1	7
FF85RY01	2	4	3	4
LL07GE07	3	3	4	3
NR50KR05				
OP51BS10				
ER43ER01	5	5	6	6
ER03ER07				
SI58GH05				
ST39LL06	1	2	1	2
NZ61EZ06	3	2	2	2
IS91LE03	1	1	1	1
ER46CK07	6	6	6	6
TH95TE11	3	5	5	5
CE30RY07	2	2	2	5
PP76ER09				
ON53TE11				
EN59BE01				
TH39IS04	2			
TO72KE09	3	4	3	4
NE37TZ10	1	1	1	5
ES96RS09				
KI89PA01	2	4	3	4
RI92EN11	6	1	3	3
JO39HL10				
SI07CI08				
OX89MS10	2	3	2	2
YD68TH09	2	2	2	2
BA31AN08	1	1	1	1
ST89AM11				
MS62LD08	1	2	1	1
IS08TS05	2	2	1	3
AN67AL11	3	5	4	4
ER35ER05	2	2	2	2
SH02EY04	3	5	5	5
LY13IN09	3	3	4	4
RU43BU02	2	6	5	3
EM58ER09	1	3	1	3
AN70TH03	5	4	4	4
OX59LL12	3	4	7	7
ER82SH04	3	4	3	5
US22RD02	3	3	3	3
RS94SH05	4	4	4	4
US59ER11	2	2	2	2
BO20LL09	3	4	4	4
ER53LL10	1	4	4	5
LINOULLIU	<u>'</u>			<u> </u>

CodeID	Q22 [R]	Q59 [R]	Q61 [R]	Q67 [R]
KL02US10	5	4	5	6
RL49LS06	3	6	5	6
US67LL06				
OW56RE12	2	2	2	2
RS27RT01	1	1	1	1
EK59OD06				
ER03ER10	3	3	3	3
HA07ER09	2			

#### Individual – Job Satisfaction

CodeID         Q62         Q65         Q69 [R]           EN90ER11         7         6         1           ER58ON01         6         6         1           MS41EY07         2         2         7           LE24SO01         6         6         2           ER00EN11         3         3         5           LL91TH12         6         6         2           ER15AN02         6         6         1           LE23ER11         5         3         3           ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           TH01IN02         6         6         1           TH02P2ER09         6         6         1           NN02IS09         5         3         3				
ER58ON01 6 6 6 1 MS41EY07 2 2 7 LE24SO01 6 6 6 2 ER00EN11 3 3 5 LL91TH12 6 6 6 2 ER15AN02 6 6 1 LE23ER11 5 3 3 ME19ES05 6 3 5 DS55RN04 5 5 1 ER55CE03 6 7 1 FT69ER02 7 7 1 AR29LE03 3 3 5 WI57KE01 6 3 4 LL61KE12 6 6 2 AR46RN06 6 6 1 LY92ER09 6 6 1 TH01IN02 6 6 2 NS39MS03 6 5 2 ER03ON10 6 6 2 ER10ER02 6 6 1 OD16TT11 6 6 2 TH49GE01 6 5 2 BA17TT10 5 4 2 MA41AD07 5 6 2 TH35ER05 7 7 1 ER97ST11 6 4 6 ON63NS02 6 6 2 PP41IS05 4 4 4 MI63EN02 5 7 7 1 ER97ST11 6 4 6 ON63NS02 6 6 2 PP41IS05 4 4 4 MI63EN02 5 5 1 NG42ON04 7 7 1 ER97ST11 6 4 6 ON63NS02 6 6 2 PP41IS05 4 4 4 MI63EN02 5 5 1 NG42ON04 7 7 1 VE84EL05 6 5 2 RT07ER09 7 7 1 ER97EP02 6 5 2 RT07ER09 7 7 1 EY27EP02 6 5 2 MS62LD08 7 7 1		Q62	Q65	Q69 [R]
MS41EY07	EN90ER11	7	6	
LE24S001         6         6         2           ER00EN11         3         3         5           LL91TH12         6         6         2           ER15AN02         6         6         1           LE23ER11         5         3         3           ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           A         4         4         3           NN02IS09         5         3         3           B         6         6         2           RR39MS03         6         5         2           ER03ON10         6         6         2           <	ER58ON01	6	6	1
ER00EN11         3         3         5           LL91TH12         6         6         2           ER15AN02         6         6         1           LE23ER11         5         3         3           ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           MA46RN06         6         6         2           MS39MS03         6         5         2           ER03ON10         6         6         2           NS39MS03         6         5         2           ER10ER02         6         6         1           OD16TT11         6         6         2	MS41EY07	2	2	7
LL91TH12         6         6         2           ER15AN02         6         6         1           LE23ER11         5         3         3           ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3         3           NN02IS09         5         3         3           6         6         2         2           RR39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           <	LE24SO01	6	6	2
ER15AN02         6         6         1           LE23ER11         5         3         3           ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         2           NS39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH35ER05         5         2         2           LE68ER11         7	ER00EN11	3	3	5
LE23ER11         5         3         3           ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           NS39MS03         6         5         2           ER030N10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2	LL91TH12	6	6	2
ME19ES05         6         3         5           DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         2         2           NS39MS03         6         5         2           ER030N10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         2         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11	ER15AN02	6	6	1
DS55RN04         5         5         1           ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         2           NS39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7	LE23ER11	5	3	3
ER55CE03         6         7         1           FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         2           NS39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7	ME19ES05	6	3	5
FT69ER02         7         7         1           AR29LE03         3         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         2           NS39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           ER97ST11         6	DS55RN04	5	5	1
AR29LE03         3         5           WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           H01IN02         6         6         2           AR4         4         3         3           NN02IS09         5         3         3           AR4         4         4         3           NN02IS09         5         3         3           AR4         4         4         3           NN02IS09         5         3         3           BR39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05	ER55CE03	6	7	1
WI57KE01         6         3         4           LL61KE12         6         6         2           AR46RN06         6         6         1           LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         2           NS39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           PP41IS05         4         4         4           MI63EN02         5	FT69ER02	7	7	1
LL61KE12       6       6       2         AR46RN06       6       6       1         LY92ER09       6       6       1         TH01IN02       6       6       2         4       4       3         NN02IS09       5       3       3         6       6       6       2         NS39MS03       6       5       2         ER03ON10       6       6       2         ER10ER02       6       6       1         OD16TT11       6       6       2         TH49GE01       6       5       2         BA17TT10       5       4       2         MA41AD07       5       6       2         TH35ER05       5       2       2         LE68ER11       7       6       1         HU26TS06       7       7       1         IS42IS10       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2 <td>AR29LE03</td> <td>3</td> <td>3</td> <td>5</td>	AR29LE03	3	3	5
AR46RN06 6 6 1 LY92ER09 6 6 1 TH01IN02 6 6 2  4 4 4 3  NN02IS09 5 3 3  6 6 6 2  NS39MS03 6 5 2  ER03ON10 6 6 2  ER10ER02 6 6 1  OD16TT11 6 6 2  TH49GE01 6 5 2  BA17TT10 5 4 2  MA41AD07 5 6 2  TH35ER05 5 2 2  LE68ER11 7 6 1  HU26TS06 7 7 1 IS42IS10 6 6 2  PP41IS05 4 6 2  PP41IS05 4 4 4  MI63EN02 5 5 1  NG42ON04 7 7 1  VE84EL05 6 5 2  RT07ER09 7 7 1  EY27EP02 6 5 2  MS62LD08 7 7 1  EY27EP02 6 5 2  MS62LD08 7 7 1	WI57KE01	6	3	4
AR46RN06 6 6 1 LY92ER09 6 6 1 TH01IN02 6 6 2  4 4 4 3  NN02IS09 5 3 3  6 6 6 2  NS39MS03 6 5 2  ER03ON10 6 6 2  ER10ER02 6 6 1  OD16TT11 6 6 2  TH49GE01 6 5 2  BA17TT10 5 4 2  MA41AD07 5 6 2  TH35ER05 5 2 2  LE68ER11 7 6 1  HU26TS06 7 7 1 IS42IS10 6 6 2  PP41IS05 4 6 2  PP41IS05 4 4 4  MI63EN02 5 5 1  NG42ON04 7 7 1  VE84EL05 6 5 2  RT07ER09 7 7 1  EY27EP02 6 5 2  MS62LD08 7 7 1  EY27EP02 6 5 2  MS62LD08 7 7 1	LL61KE12	6	6	2
LY92ER09         6         6         1           TH01IN02         6         6         2           4         4         4         3           NN02IS09         5         3         3           6         6         6         2           NS39MS03         6         5         2           ER03ON10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           <	-	6	6	1
TH01IN02         6         6         2           4         4         3           NN02IS09         5         3         3           6         6         6         2           NS39MS03         6         5         2           ER030N10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           PP41IS05         4         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05		6		1
NN02IS09       5       3       3         NS39MS03       6       5       2         ER03ON10       6       6       2         ER10ER02       6       6       1         OD16TT11       6       6       2         TH49GE01       6       5       2         BA17TT10       5       4       2         MA41AD07       5       6       2         TH35ER05       5       2       2         LE68ER11       7       6       1         HU26TS06       7       7       1         IS42IS10       6       6       2         PP41IS05       4       4       6         ON63NS02       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1				2
NN02IS09         5         3         3           6         6         6         2           NS39MS03         6         5         2           ER030N10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           PA1IS05         4         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1				
NS39MS03       6       5       2         ER030N10       6       6       2         ER10ER02       6       6       1         OD16TT11       6       6       2         TH49GE01       6       5       2         BA17TT10       5       4       2         MA41AD07       5       6       2         TH35ER05       5       2       2         LE68ER11       7       6       1         HU26TS06       7       7       1         IS42IS10       6       6       2         PP3TST11       6       4       6         ON63NS02       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1	NN02IS09	5		
NS39MS03         6         5         2           ER030N10         6         6         2           ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           T         7         1         1           ER97ST11         6         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           EY27EP02         6         5         2				
ER10ER02         6         6         1           OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           T         7         1         1           ER97ST11         6         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1	NS39MS03			
OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           T         7         1         1           ER97ST11         6         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1	ER03ON10	6	6	2
OD16TT11         6         6         2           TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           T         7         1         1           ER97ST11         6         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1	ER10ER02	6	6	1
TH49GE01         6         5         2           BA17TT10         5         4         2           MA41AD07         5         6         2           TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           T         7         7         1           ER97ST11         6         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1	OD16TT11	6	6	2
BA17TT10       5       4       2         MA41AD07       5       6       2         TH35ER05       5       2       2         LE68ER11       7       6       1         HU26TS06       7       7       1         IS42IS10       6       6       2         ER97ST11       6       4       6         ON63NS02       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1		6	5	
MA41AD07       5       6       2         TH35ER05       5       2       2         LE68ER11       7       6       1         HU26TS06       7       7       1         IS42IS10       6       6       2         7       7       1       1         ER97ST11       6       4       6         ON63NS02       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1				
TH35ER05         5         2         2           LE68ER11         7         6         1           HU26TS06         7         7         1           IS42IS10         6         6         2           7         7         1           ER97ST11         6         4         6           ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1	-	5	6	
LE68ER11       7       6       1         HU26TS06       7       7       1         IS42IS10       6       6       2         7       7       1       1         ER97ST11       6       4       6         ON63NS02       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1		5	2	2
HU26TS06       7       7       1         IS42IS10       6       6       2         7       7       7       1         ER97ST11       6       4       6         ON63NS02       6       6       2         PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1		7	6	1
IS42IS10     6     6     2       7     7     1       ER97ST11     6     4     6       ON63NS02     6     6     2       PP41IS05     4     4     4       MI63EN02     5     5     1       NG42ON04     7     7     1       VE84EL05     6     5     2       RT07ER09     7     7     1       RY26ON05     7     7     1       EY27EP02     6     5     2       MS62LD08     7     7     1		7		1
7     7     1       ER97ST11     6     4     6       ON63NS02     6     6     2       PP41IS05     4     4     4       MI63EN02     5     5     1       NG42ON04     7     7     1       VE84EL05     6     5     2       RT07ER09     7     7     1       RY26ON05     7     7     1       EY27EP02     6     5     2       MS62LD08     7     7     1				2
ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1		7	7	1
ON63NS02         6         6         2           PP41IS05         4         4         4           MI63EN02         5         5         1           NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1	ER97ST11		4	6
PP41IS05       4       4       4         MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1		6	6	
MI63EN02       5       5       1         NG42ON04       7       7       1         VE84EL05       6       5       2         RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1		1		
NG42ON04         7         7         1           VE84EL05         6         5         2           RT07ER09         7         7         1           RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1				
VE84EL05         6         5         2           RT07ER09         7         7         1           RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1				
RT07ER09       7       7       1         RY26ON05       7       7       1         EY27EP02       6       5       2         MS62LD08       7       7       1	-	-		
RY26ON05         7         7         1           EY27EP02         6         5         2           MS62LD08         7         7         1				
EY27EP02         6         5         2           MS62LD08         7         7         1				
MS62LD08 7 7 1				-
<del>                                     </del>				
	-			

CodeID	Q62	Q65	Q69 [R]
ER35ER05	6	6	2
RY16AU12	6	6	3
JO54EN02	5	5	3
WE48RK08	7	6	1
	5	5	3
RS27RT01	6	6	2
GH95OR12	6	6	1
TT20LA06	6	6	1
AN34CE07	7	7	1
	5	5	3
AN46TT10	7	7	1
EY51HI09	5	5	3
WO80CH01	6	6	2
	3	2	5
UM37ER11	5	3	5
IS75ER06	6	6	1
BB30ER04	7	4	1
AN33LT07	5	5	2
CM01ON01	6	6	2
NS30CK08	5	5	3
EU12ER02	1	2	6
SU77EE03	6	5	3
ER50ER07	6	6	3
LS58IZ08	6	6	1
RO53KI08	1	1	1
RE46CK09			
AD38ER10			
DA22NK05	7	1	4
KR04EN04	5	5	1
RA20GR06	4	3	4
ZE56CE11			
AN97RT07			
JU46TT10	7	7	1
LS99LL07	7	7	1
NS46ND09	7	6	1
KI89ER12	7	7	1
AK12KY07	4	4	4
WN97AN05			
ON89EL11			
BA31DR12			
ER14NS11			
OR23ER03			
IN14CH07	7	7	2
BS61ER02			
LK46LK03	5	5	3
CE46RA09	6	6	2
TH79TH08	2	2	6

CodeID	Q62	Q65	Q69 [R]
WN45ER12	5	5	3
RO69NO12			
HA27HU11	7	7	1
FF85RY01	6	5	4
LL07GE07	6	6	2
NR50KR05			
OP51BS10			
ER43ER01	6	2	4
ER03ER07			
SI58GH05			
ST39LL06	6	4	4
NZ61EZ06	6	6	1
IS91LE03	6	6	4
ER46CK07	2	1	6
TH95TE11	4	4	4
CE30RY07	6	6	2
PP76ER09			
ON53TE11			
EN59BE01			
TH39IS04			
TO72KE09	3	2	6
NE37TZ10	7	7	1
ES96RS09			
KI89PA01	5	3	4
RI92EN11	6	6	2
JO39HL10			
SI07CI08			
OX89MS10	6	6	2
YD68TH09	6	6	1
BA31AN08	7	6	1
ST89AM11			
MS62LD08	7	7	1
IS08TS05	7	6	1
AN67AL11	6	6	2
ER35ER05	6	6	2
SH02EY04	5	5	3
LY13IN09	7	6	1
RU43BU02	6	6	2
EM58ER09	6	6	1
AN70TH03	4	4	4
OX59LL12	2	1	4
ER82SH04	6	6	2
US22RD02	5	5	3
RS94SH05	6	5	2
US59ER11	6	6	1
BO20LL09	6	5	2
ER53LL10	4	4	3

CodeID	Q62	Q65	Q69 [R]
KL02US10	5	5	3
RL49LS06	5	4	5
US67LL06			
OW56RE12	6	6	2
RS27RT01	6	6	2
EK59OD06			
ER03ER10	7	6	1
HA07ER09			

#### **Individual – Turnover Intentions**

CodeID	Q60 [R]	Q70 [R]	Q75 [R]	Q77 [R]
EN90ER11	1	4	4	1
ER58ON01	1	1	1	1
MS41EY07	2	7	2	7
LE24SO01	2	2	2	2
ER00EN11	5	3	3	5
LL91TH12	1	1	1	1
ER15AN02	1	1	1	1
LE23ER11	2	4	2	2
ME19ES05	1	2	2	2
DS55RN04	2	1	1	3
ER55CE03	1	2	2	2
FT69ER02	1	1	1	1
AR29LE03	6	6	3	5
WI57KE01	1	4	2	2
LL61KE12	1	1	1	1
AR46RN06	1	1	1	1
LY92ER09	1	2	1	1
TH01IN02	2	2	2	2
	5	4	4	5
NN02IS09	5	4	4	6
	1	2	1	1
NS39MS03	1	1	4	4
ER03ON10	2	2	2	2
ER10ER02	1	1	1	1
OD16TT11	2	2	5	2
TH49GE01	1	2	2	2
BA17TT10	1	5	4	2
MA41AD07	1	3	2	2
TH35ER05	6	1	6	2
LE68ER11	1	1	1	1
HU26TS06	1	1	1	1
IS42IS10	1	3	2	2
	1	1	1	1
ER97ST11	2	2	2	1
ON63NS02	2	2	2	2
PP41IS05	3	4	4	4
MI63EN02	1	1	1	1
NG42ON04	1	1	1	1
VE84EL05	2	2	2	2
RT07ER09	1	1	1	1
RY26ON05	1	1	1	1
EY27EP02	1	1	1	2

CodeID	Q60 [R]	Q70 [R]	Q75 [R]	Q77 [R]
MS62LD08	1	1	1	1
NE45US03	1	2	2	2
ER35ER05	1	2	1	1
RY16AU12	5	3	2	5
JO54EN02	3		3	3
WE48RK08	1	1	1	1
	1	4	3	4
RS27RT01	1	2	2	1
GH95OR12	1	5	1	2
TT20LA06	1	3	1	1
AN34CE07	1	1	1	1
	2	7	5	3
AN46TT10	1	1	1	1
EY51HI09	3	3	3	3
WO80CH01	2	2	2	2
	1	6	4	2
UM37ER11	4	4	4	3
IS75ER06	2	1	1	2
BB30ER04	2	2	1	2
AN33LT07	2	2	2	2
CM01ON01	1	1	3	1
NS30CK08	1	1	1	1
EU12ER02	1	2	2	3
SU77EE03	5	6	5	2
ER50ER07	1	1	1	1
LS58IZ08	1	4	2	2
RO53KI08	4	4	4	4
RE46CK09				
AD38ER10				
DA22NK05	4	6	3	4
KR04EN04	1	1	6	2
RA20GR06	5	5	4	5
ZE56CE11				
AN97RT07				
JU46TT10	1	1	2	2
LS99LL07	1	2		
NS46ND09	1	1	1	1
KI89ER12	1	1	1	1
AK12KY07	3	5	4	4
WN97AN05			<u>'</u>	•
ON89EL11				
BA31DR12				
ER14NS11				
OR23ER03				
CINZULINUS				

0 1 10	000 (D)	070 (D)	075 (D)	077 (D)
CodeID	Q60 [R]	Q70 [R]	Q75 [R]	Q77 [R]
IN14CH07	2	2	1	1
BS61ER02	0		0	0
LK46LK03	3	5	2	3
CE46RA09	2	2	2	2
TH79TH08	6	6	6	6
WN45ER12	1	1	3	4
RO69NO12				
HA27HU11	1	1	1	1
FF85RY01	1	1	1	1
LL07GE07	2	2	2	2
NR50KR05				
OP51BS10				
ER43ER01	1	6	7	1
ER03ER07				
SI58GH05				
ST39LL06	4	4	4	4
NZ61EZ06	1	2	2	2
IS91LE03	7	7	7	7
ER46CK07	6	6	6	6
TH95TE11	4	3	3	4
CE30RY07	6	1	2	2
PP76ER09				
ON53TE11				
EN59BE01				
TH39IS04				
TO72KE09	1	6	5	2
NE37TZ10	1	1	1	1
ES96RS09				
KI89PA01	4	4	3	4
RI92EN11	1	1	1	1
JO39HL10				
SI07CI08				
OX89MS10	1	4	5	5
YD68TH09	1	1	1	1
BA31AN08	1	1	1	2
ST89AM11				
MS62LD08	1	1	1	1
IS08TS05	1	1	1	1
AN67AL11	1	1	1	1
ER35ER05	1	1	1	1
SH02EY04	3	3	3	3
LY13IN09	1	2	2	1
RU43BU02	1	1	1	1
EM58ER09	1	1	1	1

	1	1		
CodeID	Q60 [R]	Q70 [R]	Q75 [R]	Q77 [R]
AN70TH03	4	4	4	4
OX59LL12	7	7	7	7
ER82SH04	3	2	2	2
US22RD02	2	3	3	2
RS94SH05	4	2	5	6
US59ER11	1	2	2	2
BO20LL09	3	2	2	2
ER53LL10	5	6	6	4
KL02US10	2	2	2	5
RL49LS06	5	5	5	5
US67LL06				
OW56RE12	2	2	2	2
RS27RT01	1	1	1	1
EK59OD06				
ER03ER10	1	2	1	1
HA07ER09				

# Individual – Change Anxiety

CodeID	Q18 [R]	Q52 [R]	Q56 [R]
EN90ER11	1	5	2
ER58ON01	4	1	1
MS41EY07	2	2	4
LE24SO01	2	2	2
ER00EN11	3	4	4
LL91TH12	5	5	5
ER15AN02	3	2	3
LE23ER11	6	4	4
ME19ES05	2	3	4
DS55RN04	2	2	2
ER55CE03	5	2	2
FT69ER02	3	2	1
AR29LE03	6	5	5
WI57KE01	5	3	4
LL61KE12	3	4	3
AR46RN06	2	1	1
LY92ER09	4	2	3
TH01IN02	1	2	2
1110111102	3	3	4
NN02IS09	3	2	3
1414021003	3	3	2
NS39MS03	1	1	1
ER03ON10	4	2	5
ER10ER02	2	1	2
OD16TT11	2	2	2
TH49GE01	7	4	3
BA17TT10	2	2	3
MA41AD07	4	2	2
TH35ER05	2	1	3
LE68ER11	3	1	
HU26TS06	6	2	2
IS42IS10	5	2	2
10 1210 10	4	2	3
ER97ST11	2	2	2
ON63NS02	2	4	4
PP41IS05	2	2	3
MI63EN02	5	2	2
NG420N04	4	2	2
VE84EL05	6	4	3
RT07ER09	4	2	2
RY26ON05	2	4	2
EY27EP02	3	3	3
MS62LD08	4	5	2
NE45US03	2	2	3

CodeID	Q18 [R]	Q52 [R]	Q56 [R]
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RY16AU12	5	6	4
JO54EN02	4	4	5
WE48RK08	2	2	2
	4	2	3
RS27RT01	1	1	1
GH95OR12	4	3	2
TT20LA06	4	2	3
AN34CE07	3	2	1
	4	3	3
AN46TT10	4	2	4
EY51HI09	3	2	3
WO80CH01	2	2	3
	4	4	4
UM37ER11	7	5	6
IS75ER06	3	3	5
BB30ER04	4	3	2
AN33LT07	2	2	2
CM01ON01	2	1	1
NS30CK08	4	3	3
EU12ER02	2	3	2
SU77EE03	1	1	1
ER50ER07	3	2	6
LS58IZ08	2	2	2
RO53KI08	1	1	1
RE46CK09	5		
AD38ER10			
DA22NK05	4	2	4
KR04EN04	1	1	1
RA20GR06	2	2	2
ZE56CE11			
AN97RT07	4		
JU46TT10	4	1	5
LS99LL07	1	1	7
NS46ND09	6	1	1
KI89ER12	1	2	2
AK12KY07	4	4	3
WN97AN05			
ON89EL11			
BA31DR12			
ER14NS11	5		
OR23ER03			
IN14CH07	1	2	2
BS61ER02			
LK46LK03	5	2	3
CE46RA09	3	2	3
TH79TH08	3	2	2

CadalD	040 [D]	O50 [D]	050 ID1
CodeID	Q18 [R] 6	Q52 [R]	Q56 [R]
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HA27HU11	7	1	1
FF85RY01	4	3	2
LL07GE07	2	2	2
NR50KR05	4		
OP51BS10	4		
ER43ER01	4	2	2
	4		
ER03ER07			
SI58GH05	2	7	2
ST39LL06	3	7	2
NZ61EZ06	5	2	2
IS91LE03	1	1	1
ER46CK07	2	2	3
TH95TE11	5	3	3
CE30RY07	2	1	2
PP76ER09	5		
ON53TE11			
EN59BE01	3		
TH39IS04	4		
TO72KE09	3	3	3
NE37TZ10	4	4	4
ES96RS09			
KI89PA01	3	1	2
RI92EN11	1	2	1
JO39HL10			
SI07CI08			
OX89MS10	6	2	2
YD68TH09	2	2	2
BA31AN08	2	1	1
ST89AM11			
MS62LD08	4	2	1
IS08TS05	4	2	2
AN67AL11	4	2	4
ER35ER05	2	2	2
SH02EY04	4	3	4
LY13IN09	6	3	2
RU43BU02	2	4	3
EM58ER09	3	2	2
AN70TH03	6	5	2
OX59LL12	6	3	5
ER82SH04	5	4	5
US22RD02	4	4	3
RS94SH05	2	6	3
US59ER11	3	2	2
BO20LL09	3	4	3
ER53LL10	5	2	1

CodelD	Q18 [R]	Q52 [R]	Q56 [R]
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RL49LS06	5	5	5
US67LL06			
OW56RE12	1	1	1
RS27RT01	1	1	1
EK59OD06			
ER03ER10	4	2	2
HA07ER09	6	2	2

## **Demographics**

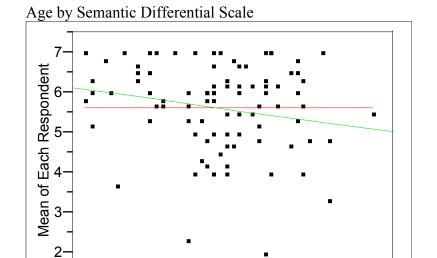
Career	Supervisor	Supervise how many people?	Levels from ASC/PK Chief	Months at ASC/PK	Months at Current Job	Months from Retirement	Level_of_Educati	Age	Gender	Milistary or Civilian?	If Military, what rank? If Civilian, prior military?
PROC TECH	NO	0	3	204	60	132	AD	44	F	CIV	NO
CO	YES	10	4	27	14	144	HS	55	M	CIV	YES
BUYER	NO	0	•	16	16	96	BD	46	F	CIV	. 20
CO	YES	9	1	229	33	132	MD	44	М	CIV	NO
PRICER	YES	10	2	360	168	108	BD	54	М	CIV	YES
CO	NO	0	3	184	5	204	BD	45	M	CIV	NO
BUYER	NO	0	2	250	39	72	BD	56	M	CIV	YES
BUYER	NO	0	2	28	10	216	BD	24	F	MIL	1LT
BUYER	NO	0	3	30	6	360	BD	26	F	CIV	NO
BUYER	NO	0	2	32	18	480	BD	23	М	CIV	NO
CO	YES	9	3	222	24	48	MD	54	M	CIV	YES
CO	YES	5	1	120	14	96	MD	46	M	CIV	YES
ADMIN	NO	0	1	312	132	132	HS	44	F	CIV	NO
CO	YES	5	1	215	23	144	MD	43	F	CIV	NO
BUYER	NO	0	4	31	1	240	BD	34	М	CIV	YES
MANAGEMENT CO	YES NO	20 0	1 3	234 217	18 2	84 108	MD BD	48 46	F F	CIV CIV	NO NO
CO	NO	0	3	188	98	12	BD	54	Г М	CIV	NO
CO	NO	0	3	180	90	12	MD	54	F	CIV	NO
CO	NO	0	3	154	20	240	MD	38	M	CIV	NO
BUYER	NO	0	2	54	28	300	BD	28	M	CIV	NO
CO	YES	4	3	180	60	168	MD	20	M	CIV	NO
MANAGEMENT	YES	30	1	6	6	48	MD	45	M	MIL	LTC
BUYER	NO	0	3	30	12	156	BD	42	M	CIV	NO
STAFF	NO	0	3	34	1		BD	44	F	CIV	NO
CO	NO	0	3	216	36	204	BD	40	М	CIV	NO
CO	NO	0	3	240	10	168	MD	41	F	CIV	NO
CO	YES	7	4	48	48	384	MD	33	F	CIV	NO
PROC TECH	NO	0	3	169	169	288	HS	38	F	CIV	NO
PROC TECH	NO	0	3	94	94	300	HS	38	F	CIV	NO
BUYER	NO	0	3	125	9	264	MD	40	M	CIV	NO
CO	NO	0	3	34	34	132	BD	44	M	CIV	NO
MANAGEMENT	YES	22	1	347	9	36	MD	52	M	CIV	NO
CO	YES	8	2	363	6	24	MD	52	M	CIV	NO
BUYER	NO	0	4	4	4	228	MD	23	F	MIL	2LT
CO	NO	0	4	175	9	240	MD	42	М	CIV	NO
BUYER	NO	0	3	2	2	35	BD	22	F	CIV	NO
CO	NO	0	2	203		60	MD	60	M	CIV	
PRICER	NO	0	2	36	36	180	MD	41	M	CIV	NO
CO	NO	0	3	125	50	252	MD	41	F	CIV	NO

BUYER MANAGEMENT BUYER CO BUYER BUYER MANAGEMENT BUYER BUYER BUYER BUYER CO CO	NO YES NO NO NO YES NO NO NO YES YES	0 34 0 0 0 0 30 0 0 0 4 3	4 1 4 4 4 1 5 2	52 275 4 204 7 408 354 216 8 232 192	52 2 4 48 7 40 114 11 8 5 60	156 60 420 84 60 36 60 132 120 288 192 72	BD MD BD AD BD MD BD MD MD MD	45 51 22 55 43 59 54 45 31 44 55	F F M M M F M M F	CIV CIV CIV CIV CIV CIV CIV CIV CIV	NO NO YES NO NO NO NO NO YES NO NO
CO STAFF BUYER PROC TECH BUYER MANAGEMENT BUYER BUYER BUYER CO BUYER	NO YES NO NO YES NO NO YES NO NO YES NO NO	0 25 0 0 0 34 0 0 0 10 0	2 1 3 4 3 1 4 1 2 3 3 2	33 28 6 168 265 426 15 222 8 184 209 4 192 16 108	33 12 6 24 60 70 15 42 6 29 7 4	216 96 420 84 72 24 26 72 180 156 168 168 192	BD MD BD MD HS BD MD BD BD BD BD	49 34 30 55 57 60 47 32 41 48 30 42 27 41	M F F M M M M M M F	CIV MIL CIV CIV CIV CIV CIV MIL CIV MIL CIV MIL	YES MAJ NO NO NO NO NO NO CAPT NO CAPT CAPT NO
BUYER	YES NO NO	10	3 1 4	24 12 6	24 12 6	120 108 192	MD BD	32 49 25	M M F	MIL MIL MIL	CAPT LTC
BUYER BUYER BUYER STAFF STAFF	NO NO NO NO		3 1 3 3 4	24 24 196 0 19	1 12 43 204 19	216 60 120 180 216	BD MD HS MD BD	49 39 45 42 23	M M F F	CIV MIL CIV CIV MIL	YES CAPT NO NO 2LT
STAFF CO BUYER	YES NO YES	4	1 3 1	356 120 234	11 24 0	48 180 168	MD MD	56 42 44	M M M	CIV	YES NO NO

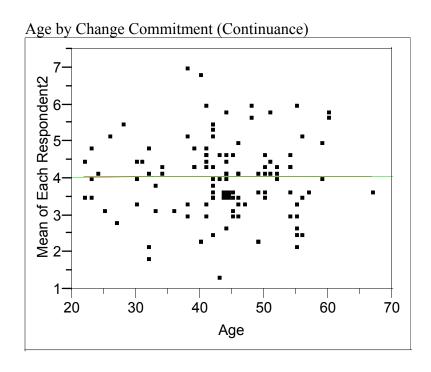
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CO	NO		4	185	37	180	MD	38	М	CIV	NO
BUYER	NO		3	31	7	360	MD	33	F	CIV	NO
BUYER	NO		2	24	14	240	BD	42	F	CIV	NO
CO	YES	9	4	187	12	144	MD	44	М	CIV	NO
		-									
STAFF	YES	19	2	32	20	120	MD	50	М	MIL	
BUYER	NO		4	252	12	72	MD	59	F	CIV	NO
CO	YES	8	3	24	24	120	MD	32	M	MIL	MAJ
PRICER	NO		1	6	6	216	MD	43	М	CIV	NO
BUYER	NO		2	72	20	96	BD	46	F	CIV	NO
BUYER	NO		3	72	36	288	MD	32	M	CIV	NO
BUYER	NO		3	0	24	12	MD	42	F	MIL	MAJ
DOTEIX	140			0	24	12	טועו	72	'	IVIIL	IVIZ
BUYER	NO		3	276	61	168	HS	41	F	CIV	NO
DUTER	NO		3	2/0	01	100	по	41	Г	CIV	NO
CO	YES	7	2	126	36	240	MD	41	М	CIV	NO
PROC TECH	NO	1	1	306	90	84	MD	50	F	CIV	NO
TROOTEON	NO			300	30	0-7	טואו	30	'	CIV	110
BUYER	NO		2	158	39	96	MD	50	М	CIV	YES
BUYER	NO		5	31	1	276	BD	30	F	CIV	YES
BUYER	NO		4	188	10	156	MD	40	F	CIV	NO
DOTER	140			100	10	100	טועו	70	'	OIV	110
MANAGEMENT	YES	34	1	276	3	60	MD	51	F	CIV	NO
CO	NO	J-T	4	125	20	240	MD	42	F	CIV	NO
CO	NO		4	216	216	120	BD	50	M	CIV	NO
CO	NO		3	206	60	84	BD	55	M	CIV	YES
BUYER	NO		3	192	96	156	BD	41	F	CIV	NO
BUYER	NO		3	228	2	180	BD	42	F	CIV	NO
CO	NO		4	359	192	24	MD	56	М	CIV	NO
CO	NO		1	211	49	144	MD	55	M	CIV	NO
	YES	8	1	295	21	96	MD	50	M	CIV	NO
CO	NO	0	5	180	72	312	BD	39	M	CIV	NO
BUYER	NO		3	292	93	6	BD	67	M	CIV	NO
	YES	6	1			72	MD	54		CIV	
<u>CO</u>		O		379	32				M		NO
CO	NO	22	4	308	96	48	BD	52 55	M	CIV	NO
MANAGEMENT	YES	22	2	348	24	36	MD	55	М	CIV	YES
PROC TECH	NO		1	295	25	156	HS	42	F	CIV	NO
BUYER	NO		4	7	7	180	MD	42	М	CIV	YES

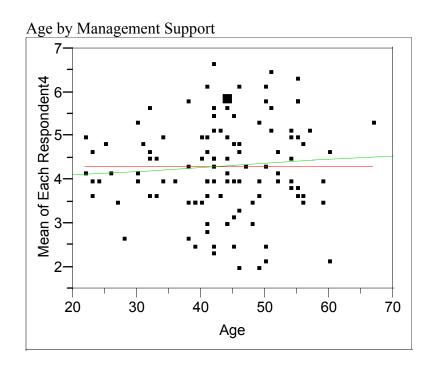
CO	NO		3	228	138	84	BD	51	M	CIV	YES
BUYER	NO		3	30	15	60	BD	49	F	CIV	NO
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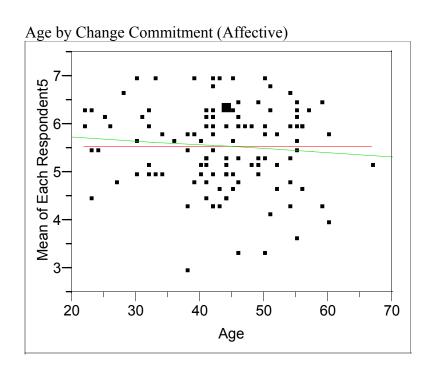
Appendix D – Dot Plots With Lines Of Best Fit (Demographics by Variables)



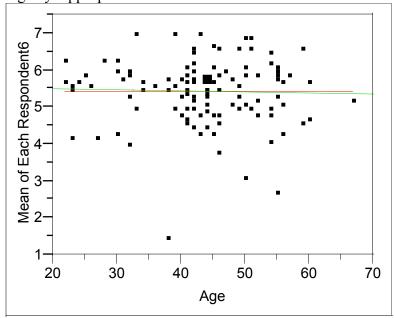
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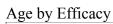


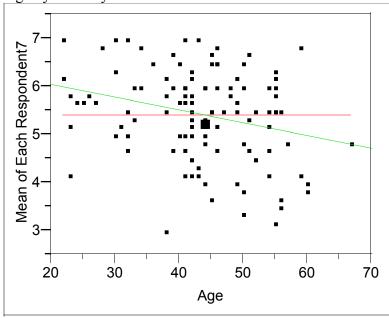


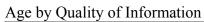


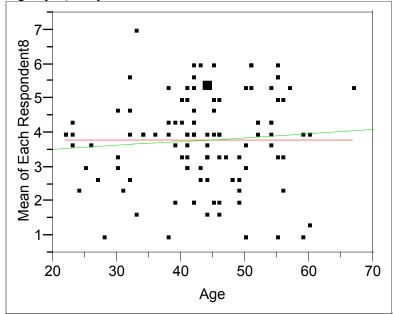




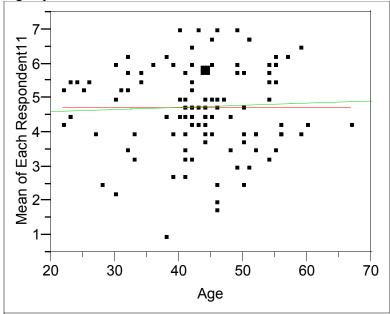


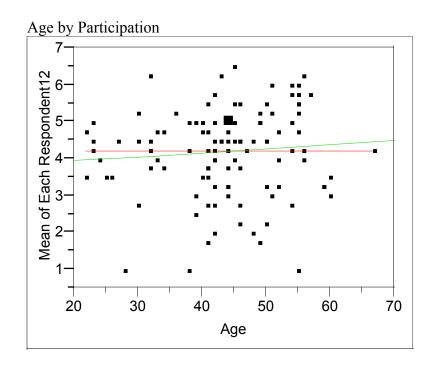


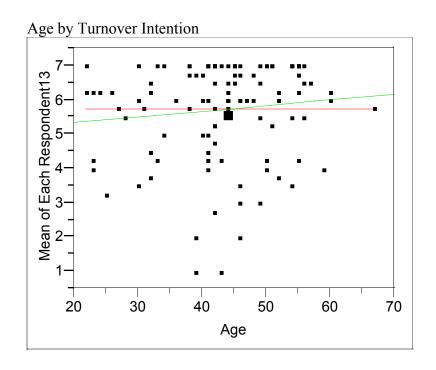


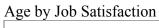


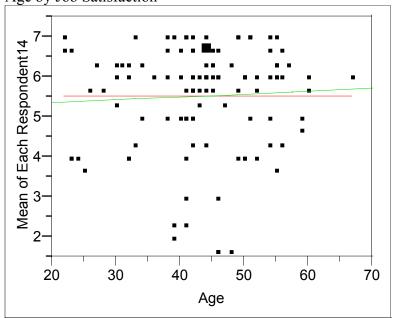
# Age by Pessimism



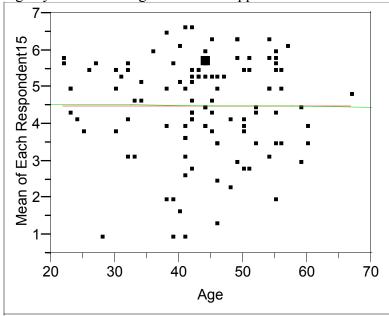


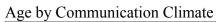


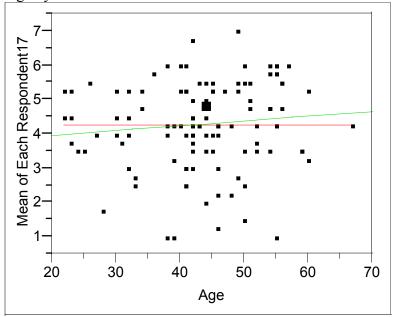




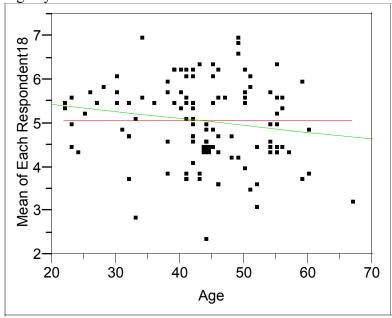


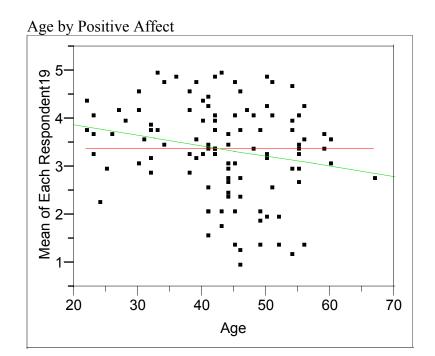


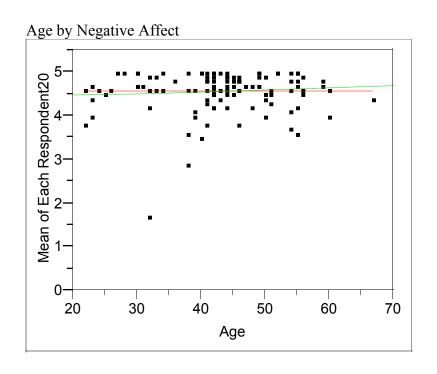


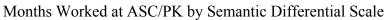


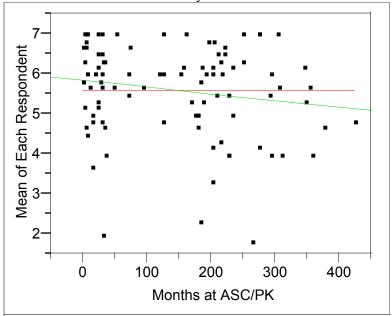
# Age by Innovativeness



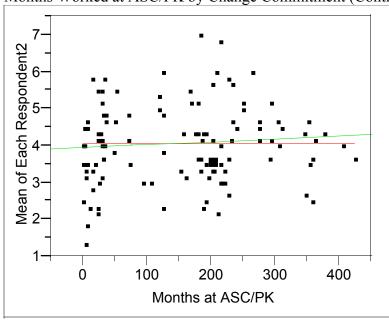




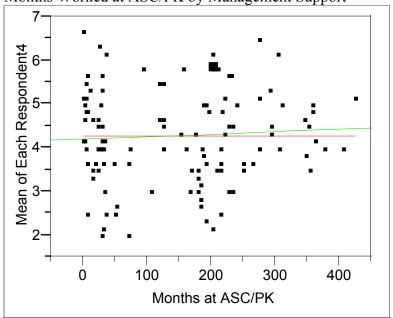




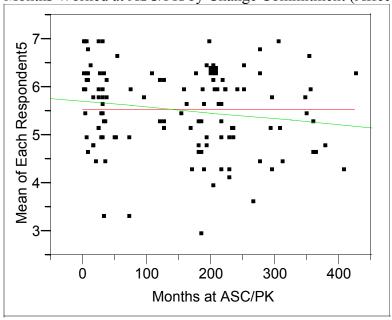
## Months Worked at ASC/PK by Change Commitment (Continuance)



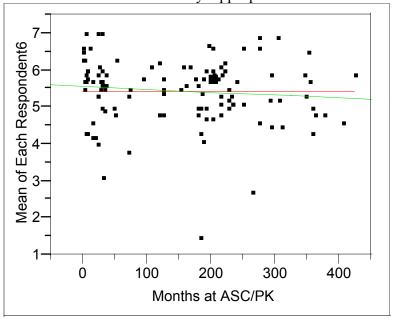




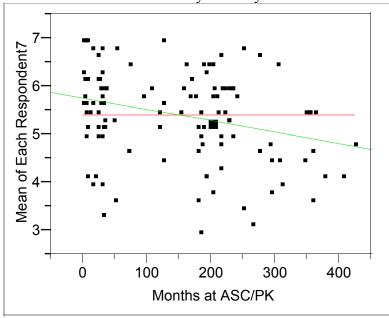
## Months Worked at ASC/PK by Change Commitment (Affective)



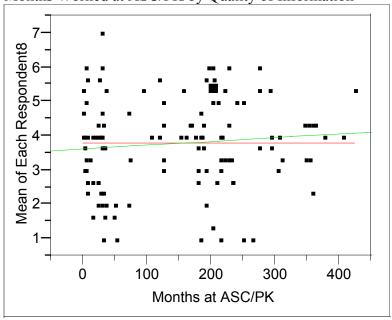




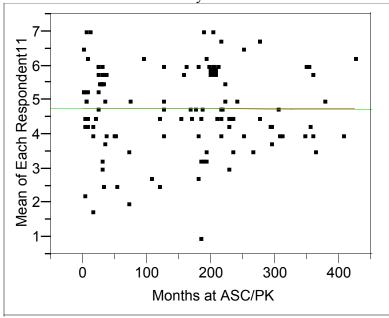
#### Months Worked at ASC/PK by Efficacy



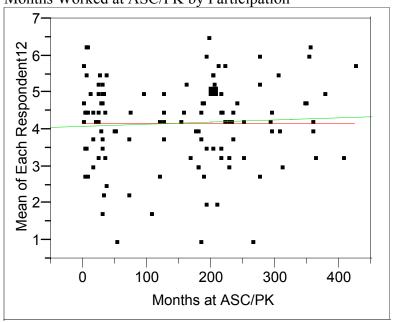




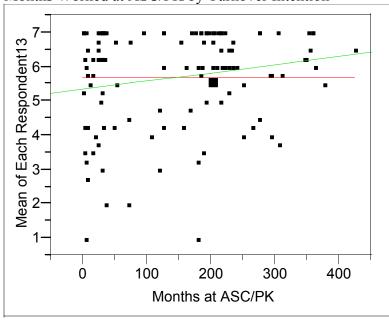
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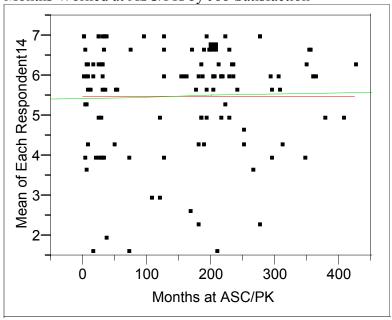
Months Worked at ASC/PK by Participation



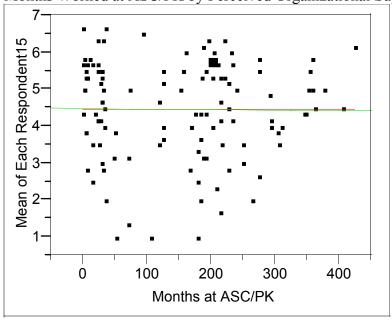


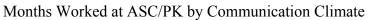


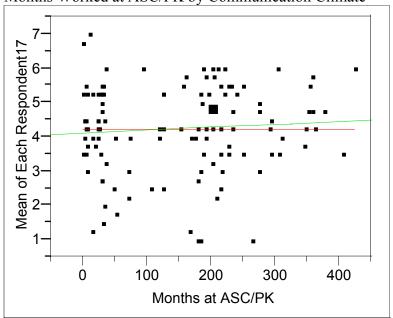
#### Months Worked at ASC/PK by Job Satisfaction



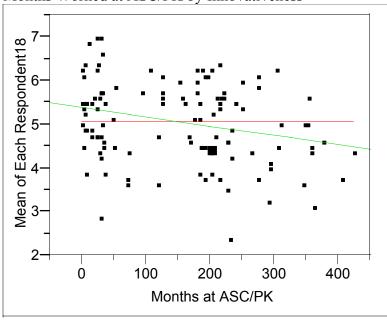
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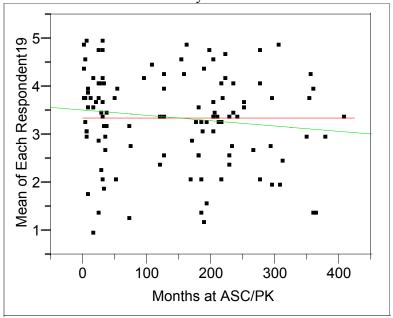




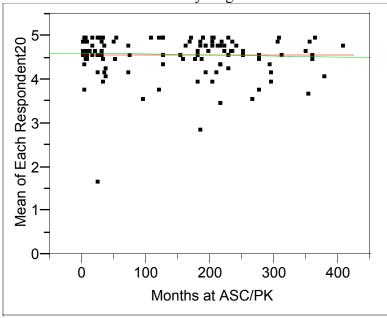
# Months Worked at ASC/PK by Innovativeness



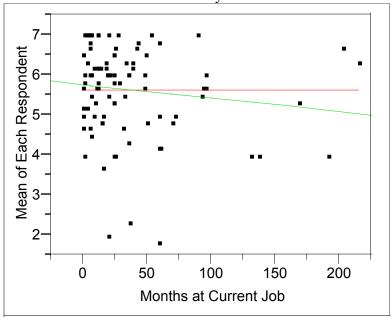




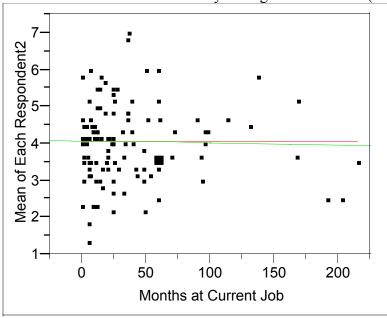
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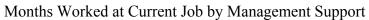


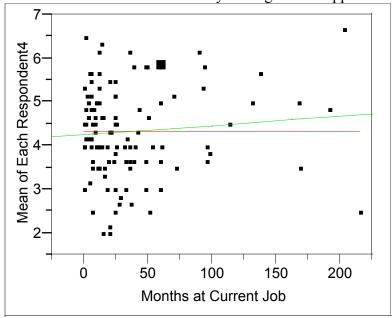
Months Worked at Current Job by Semantic Differential Scale



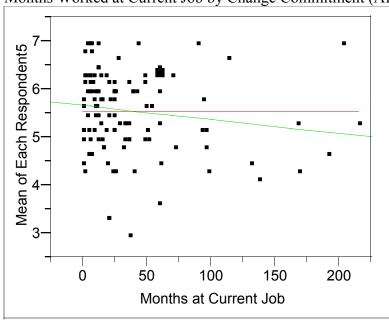
Months Worked at Current Job by Change Commitment (Continuance)



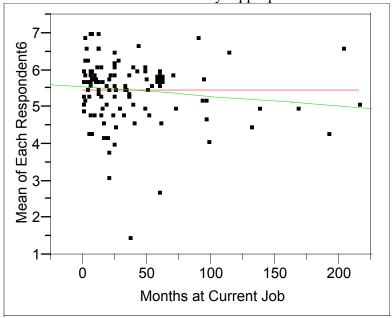




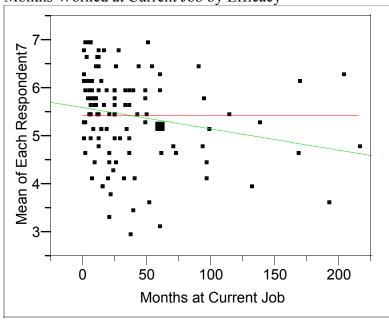
# Months Worked at Current Job by Change Commitment (Affective)



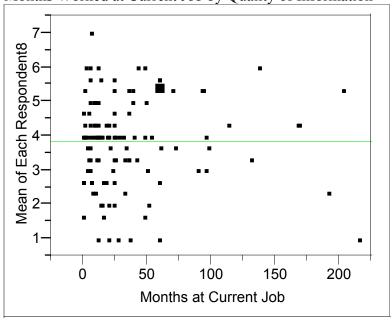
#### Months Worked at Current Job by Appropriateness



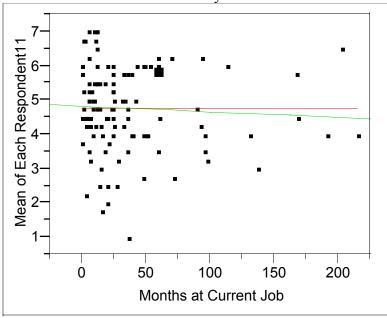
# Months Worked at Current Job by Efficacy



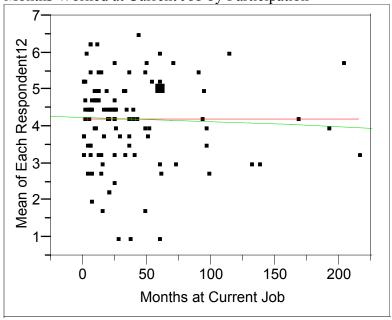
Months Worked at Current Job by Quality of Information



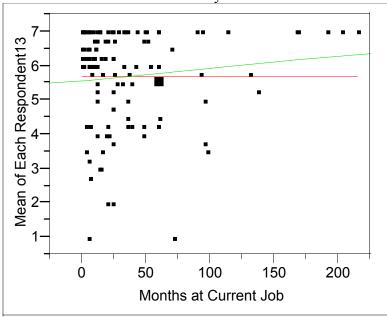
Months Worked at Current Job by Pessimism



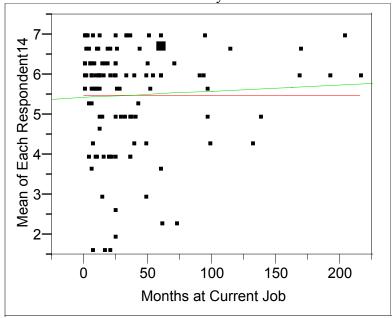
Months Worked at Current Job by Participation



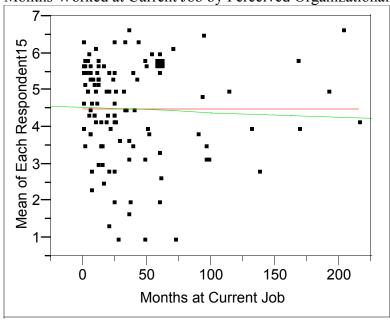




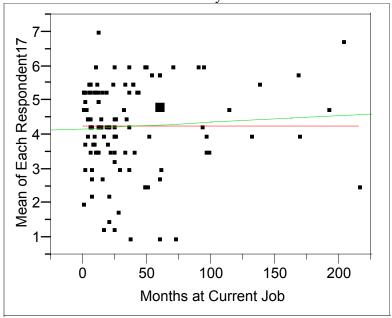
#### Months Worked at Current Job by Job Satisfaction



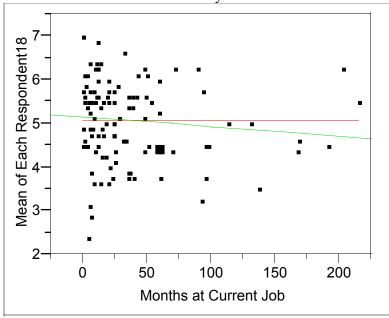
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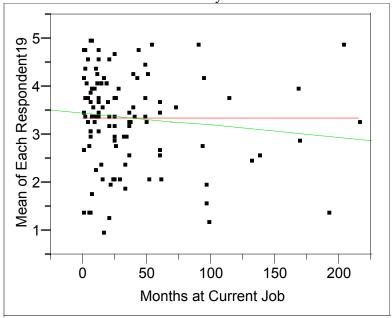
Months Worked at Current Job by Communication Climate



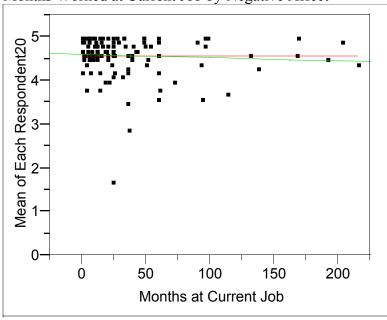
Months Worked at Current Job by Innovativeness

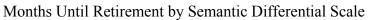


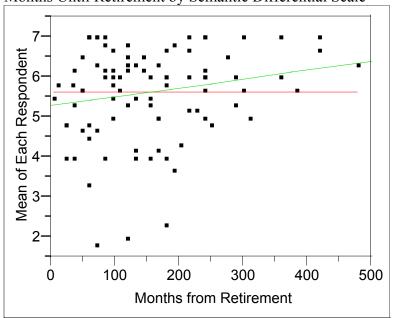
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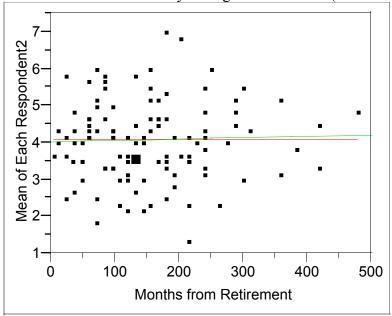
#### Months Worked at Current Job by Negative Affect

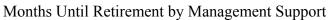


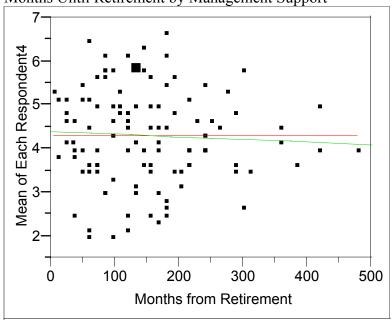




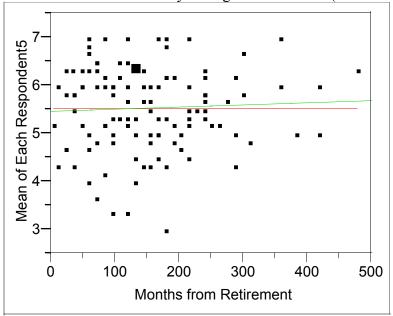
# Months Until Retirement by Change Commitment (Continuance)



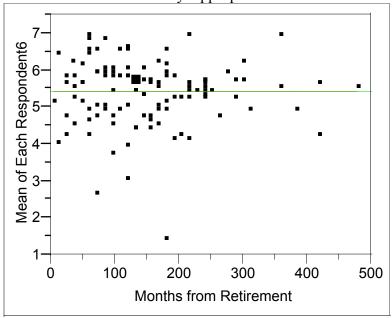




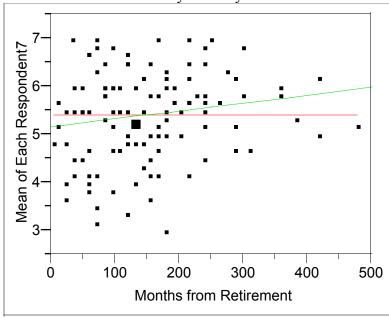
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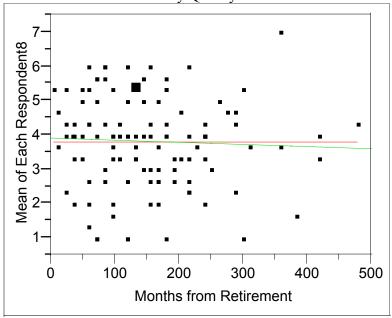




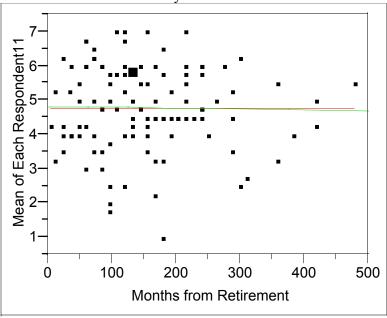
# Months Until Retirement by Efficacy



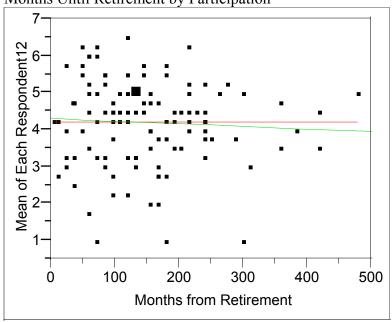
#### Months Until Retirement by Quality of Information

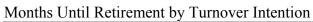


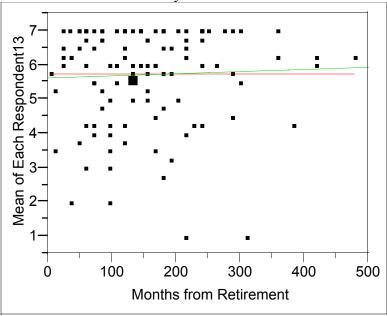
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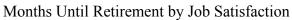


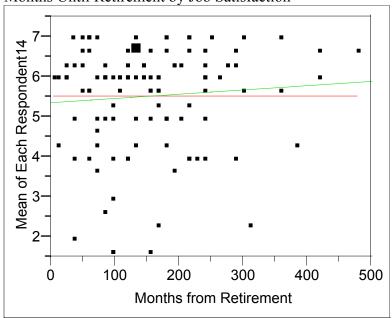
Months Until Retirement by Participation



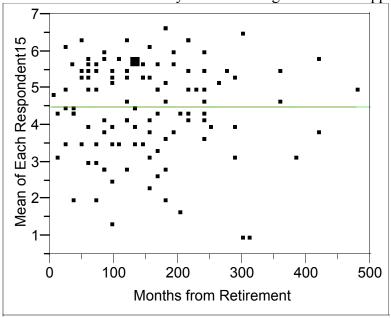


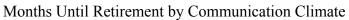


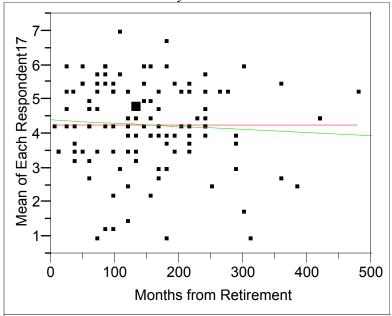




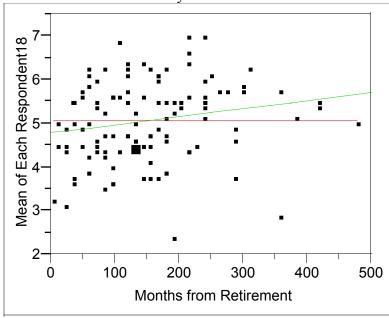
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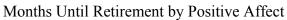


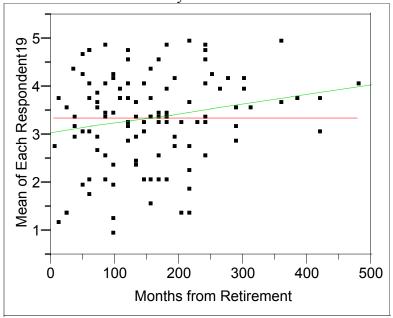




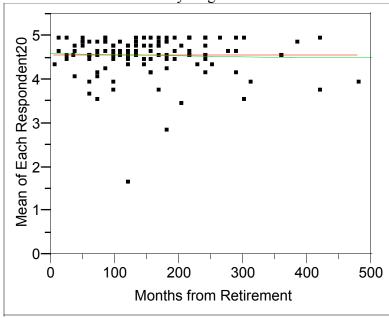
# Months Until Retirement by Innovativeness







# Months Until Retirement by Negative Affect



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#### Vita

Mr. Martin Trent was born in Dayton, Ohio and later moved with his family to Mt. Vernon, Ohio. After graduating from Mt. Vernon High School, Mt. Vernon, Ohio in 1985, he attended college at Wittenberg University, Springfield, Ohio where he earned Bachelor's Degrees in Business Administration and Philosophy. Upon graduating in 1989, he accepted a position with the United States Air Force and entered the Copper Cap training program. Mr. Trent was assigned to several System Program Offices (SPOs) at Wright-Patterson AFB, Ohio as a contract negotiator and was warranted as a Contracting Officer in June 2000. Following a 10-year assignment with the C-17 Aircraft SPO, he entered the School of Engineering and Management, Air Force Institute of Technology, in August 2001.

#### REPORT DOCUMENTATION PAGE

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#### 13. SUPPLEMENTARY NOTES

#### 14. ABSTRACT

The DoD is currently pursuing a wholesale transformation that impacts all facets of DoD operations and responsibilities. Leveraging knowledge (intellectual capital) to increase efficiency and effectiveness within the organization has become a popular management technique that has been successful in many commercial firms. The DoD has noted the commercial sector successes and initiatives to better manage knowledge are being developed and implemented on an enterprise-wide basis as well as on a local-organizational basis. Previous research suggests that an organization's readiness for change is a critical factor in whether or not implementation of knowledge management projects is successful.

This thesis focuses on measuring readiness for change within the Contracting Directorate at Aeronautical Systems Center (ASC/PK) located at Wright-Patterson AFB, Ohio and whether or not there are any demographic correlations to readiness for change within the organization. ASC/PK's readiness for change was measured using a cross-sectional survey methodology and the results suggest that the ASC/PK population is generally ready for change in regard to knowledge management initiatives; however, several areas have been highlighted for improvement to increase overall readiness. Furthermore, the results of the study do not suggest any demographic correlations.

#### 15. SUBJECT TERMS

Knowledge Management, Intellectual Capital Management, Change Management, Readiness For Change, Acquisition Reform, DoD Transformation

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