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Title:	Security of Paper Documents in the Workplace - Larry Ponemon - Ponemon Institute	Authority: ★
Date:	11/17/08	Risk Guidance: ★★★★
Business Activities:	Data Management - Destruction, Employee Authentication, Security - Administrative Safeguards, Security - Physical Safeguards	Control Guidance: ★★★★
Impact to Subscriber:	Insight into where and why paper documents are more at risk than electronic documents; ten recommendations to protect confidential and sensitive documents.	

Relevance:

Background Facts:

- the Alliance for Secure Business Information (ASBI) sponsored a Ponemon Institute study on data breaches involving paper documents:
 - the 819 respondents work in IT operations, IT security, data protection and compliance departments in large organizations.

Relevance to Business Activities:

- **security - physical safeguards** considerations:
 - the risk of having sensitive and confidential paper documents lost or stolen is not going away:
 - despite widespread computer use, we still seem dependent on paper; and
 - 65% surveyed state the availability and use of paper documents has stayed the same or increased during the past two years.
 - this study dispels the myth that the cause of most data breaches is lost or stolen electronic documents:
 - 80% of respondents reported that their organization had one or more data breaches in the last 12 months:
 - 49% involved the loss or theft of paper documents.
 - 71% of respondents' organizations had lost or misplaced sensitive paper documents;
 - 53% believe that employees are putting paper documents at risk:
 - at communal printers;
 - in meeting rooms; or
 - at meetings held outside the office.
 - why businesses are at risk of data breaches involving paper documents:
 - there are not enough resources and controls available to secure paper documents:
 - 61% strongly agree or agree;
 - 23% are unsure; and
 - 16% strongly disagree or disagree.
 - controlling access to paper documents is harder than controlling access to electronic documents:
 - 57% strongly agree or agree;
 - 20% are unsure; and
 - 24% strongly disagree or disagree.
 - paper documents contain sensitive or confidential business information:
 - 59% strongly agree or agree;
 - 32% are unsure; and
 - 9% strongly disagree or disagree.
 - employees or contractors recognize what types of information are sensitive or confidential:
 - 35% strongly disagree or disagree;
 - 51% are unsure; and
 - 14% strongly agree or agree.
 - there is a risk that employees or contractors would have access to sensitive or confidential paper documents:
 - 21% strongly agree or agree;
 - 46% are unsure; and
 - 33% strongly disagree or disagree.
 - there is a strict policy for securing paper documents:
 - 22% strongly disagree or disagree;
 - 41% are unsure; and
 - 37% strongly agree or agree.
 - certain functions and types of information are believed to be more at risk because of the inability to secure paper documents:
 - the departments or functions most at risk are:
 - human resources (45%);
 - finance and accounting (40%);
 - information technology (38%);
 - sales (34%);
 - marketing (17%); and
 - legal and compliance (11%).
 - the top five types of information employees consider to most at risk are:

- employee records;
 - customer information;
 - management accounting reports and budgets;
 - marketing and sales reports; and
 - pre-released financial information and forecasts.
- paper documents are most at risk:
 - in a trash bin (62%);
 - when initially printed and in a communal printing tray (46%);
 - at an office desk (44%);
 - awaiting disposal or shredding (31%);
 - in a document archive or permanent storage (30%);
 - in the process of being circulated internally or mailed (18%);
 - in a filing cabinet (12%); and
 - before the document is printed and is in electronic format (6%).
 - the amount of the organizations' sensitive or confidential information contained within paper documents is:
 - zero (5%);
 - less than 10% (9%);
 - less than 30% (18%);
 - less than 50% (11%); or
 - more than 50% (56%).
 - in general, organizations are better able to govern the use, protection and disposal of electronic documents than physical:
 - organizations seem to be almost equally good at communicating data breaches involving both paper and electronic documents (72% vs. 64%), however:
 - organizations believe they are better at safeguarding electronic documents than paper documents, such as:
 - educating employees about access procedures:
 - 45% for electronic documents; and
 - 21% for paper documents.
 - assigning access rights based on an individual's role:
 - 45% for electronic documents; and
 - 18% for paper documents.
 - keeping logs about who is accessing information:
 - 43% for electronic documents; and
 - 11% for paper documents.
 - organization confidence level in their visibility to all users of sensitive information contained in paper documents and electronic files:
 - very confident:
 - 7% for electronic documents; and
 - 3% for paper documents.
 - confident:
 - 21% for electronic documents; and
 - 12% for paper documents.
 - somewhat confident:
 - 43% for electronic documents; and
 - 32% for paper documents.
 - not confident:
 - 29% for electronic documents; and
 - 53% for paper documents.
 - organizations suffer significant economic impact when paper documents are lost, missing or stolen:
 - 84% of organizations believe that as result of losing paper documents, they lost:
 - time;
 - money; and
 - other resources.
 - 46% surveyed estimate the financial impact to be between \$10 million to \$30 million per year;
 - root causes for financial loss due to loss or theft of paper documents containing sensitive information:
 - loss of personal information of customers (31%);
 - loss of competitive information (29%);
 - loss of trade secrets (26%);
 - loss of personal information about employees (5%);
 - loss of accounting or financial information (3%);
 - loss of information about vendors, contractors and customers (3%).
 - **security - administrative safeguards** and **employee authentication** considerations:
 - not controlling access to paper documents with sensitive and confidential information increases the risk of a data breach:
 - employees, temporary employees or contractors have access to paper documents not pertinent to their role or responsibility:
 - never (8%);
 - sometimes (20%);
 - often (38%);
 - very often (9%); and
 - unsure (25%).
 - 55% of respondents were uncertain about who is accountable for granting access to paper documents:
 - accountability was attributed to:
 - business unit leaders (52%);
 - human resources department (31%);
 - legal, risk or compliance department (22%);
 - information technology department (15%); or
 - information security department (12%).

- 78% of organizations have a policy explaining how paper documents with sensitive data should be secured and disposed of safely, however:
 - only 29% of employees receive training about:
 - the policy; and
 - what types of information might be considered sensitive or confidential.
- recommendations to protect confidential and sensitive documents:
 - strict policies describing how sensitive and confidential documents should be disposed of;
 - strict enforcement of non-compliance with document handling and disposal procedures;
 - shredding machines that are easily accessible by employees;
 - senior level executive support;
 - ample budget to manage and control sensitive paper documents;
 - rigorous compliance of procedures for monitoring document protection and safe disposal;
 - establish accountability to business unit leaders to secure paper documents and files;
 - identification of areas on the organization that is most vulnerable and make sure there are procedures to properly dispose of paper documents;
 - training and awareness of what information the organization designates as confidential and sensitive; and
 - programs to train employees, contractors and third parties on the policies and their role in disposing of sensitive and confidential information.
- **data management - destruction** considerations:
 - the amount of paper documents containing confidential information that are shredded before disposal:
 - none are shredded (23%);
 - less than 10% (49%);
 - less than 30% (63%); and
 - less than 50% (77%).
 - the relatively low percentage of shredded documents suggests organizations are at risk for failing to secure sensitive or confidential information;
 - common steps taken to dispose of paper documents:
 - shredding documents in each office area (35%);
 - collecting documents from each office area for centralized off-site shredding (33%);
 - collecting documents from each office area for centralized in-house shredding (29%);
 - training employees about secure disposal (21%);
 - automated print restriction on specific devices (19%);
 - collecting paper documents from outside vendors for safe disposal (18%);
 - enforcing a policy on secure disposal (13%); and
 - automated print restrictions on specific files (3%).

Source Document:

http://www.fellowes.com/asbi/content/ASBI_SecurityofDocuments_Report.pdf