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Auditing Implications Derived from a Review of Cases and Articles Relating to Fraud

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For the past two years an interdisciplinary team of researchers¹ has been studying the problem of management fraud. The motivation for the study was threefold: a noted increase in the number of management frauds being committed, an increased awareness of auditors' responsibilities for detecting frauds, and a Peat, Marwick, Mitchell & Co. research grant. The objectives of the research were: (1) to conduct an extensive interdisciplinary review of the fraud related literature, (2) to identify individual, organizational, and societal factors that suggest a high probability of fraud, (3) to partially validate these factors by comparing them to past cases of fraud, and (4) to organize these factors into an early warning system that could be used by auditors in detecting and deterring fraud.

In completing the first objective, four data sources were investigated: (1) over 1500 literature references (books, journal and magazine articles, monographs, newspaper citations, and unpublished working papers) were reviewed, (2) fraud perpetrators and victims were interviewed, (3) 65 organizations concerned with the detection, deterrence, prosecution, or punishment of fraud were visited in person or contacted by mail or telephone, and (4) numerous legal and organizational documents (prison and parole records, Donn Parker's extensive files on computer fraud, and corporate records) were examined.

In completing the second objective, a comprehensive list of all variables which appeared to influence or be associated with the perpetration of fraud was compiled as the data sources were examined. The variables identified were classified into three major categories: societal, organizational, and individual factors. During this process, patterns and relationships among the variables emerged and a tentative model explaining fraud was developed.

The third objective, validating the fraud-related variables, involved examining 72 past cases of fraud. Twenty of the cases came from Donn Parker's files (Stanford Research Institute) and 52 cases came from published accounts³ of fraud. Each case was carefully analyzed to determine which of the items on the master list of variables appeared to be present in the case. At the completion of this process, each item on the master list was carefully reviewed and the master list revised.

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In revising the list, only those variables that could be associated with at least one case were kept. This is a very demanding criterion because certainly the authors who wrote about the cases probably had a perspective much different than ours.

After completing the compiling and validation steps, a fraud checklist (objective 4) for use by auditors was developed. This checklist, which includes both questions auditors will ask themselves about the client and the client about themselves, should make auditors more aware of the possibility of fraud and hence increase the probability that fraud will be detected. The checklist includes both factors that could motivate an employee to commit fraud against a company for his own benefit and an executive to commit fraud on behalf of a corporation.

The purpose of this paper is to present some conclusions and implications from the study that should be helpful to auditors. In presenting these implications, two assumptions will be made:

- (1) It is assumed that readers are aware of auditors' responsibilities for the detection of fraud as stated in the SAS's, Cohen Commission Report, and various court opinions.
- (2) It is assumed that readers agree with our definition of management fraud. The definition used (Improper actions resulting in a material misstatement of financial statements) excludes several types of criminal acts that have been classified as fraud. Some of the more common omissions are consumer fraud, false advertising, embezzlement, bribes, kickbacks, and violations of regulatory agency rules.⁵

The remainder of this paper will be divided into three parts: (1) a description or profile of the typical fraud perpetrator, (2) an explanation of why fraud occurs, and (3) steps that can be taken by auditors to reduce their exposure to management fraud.

The Typical Fraud-Perpetrator

One aspect of the study was an attempt to describe fraud perpetrators as a group and differentiate them from other groups. This task was extremely difficult because there are not many fraud perpetrators available to study. Two reasons accounted for the sparsity of available subjects: our narrow definition of fraud eliminated many potential perpetrators, and most fraud perpetrators are never incarcerated. In trying to compile a sample, we contacted over 400 prisons nationwide as well as every state and federal probation and parole department in the U.S. and Canada. Many of the agencies and prisons responded that they could not comply with our request because of one or more of the following reasons: (1) they had no fraud perpetrators fitting our description, (2) fraud perpetrators could be listed under many different crime categories, (3) they had no computerized files or organized data on fraud perpetrators, (4) our request would take too much time, or (5) responding to our request might violate security or privacy laws. As a result, our definition of fraud had to be expanded to include embezzlers who were in managerial positions. Thus, in describing fraud perpetrators, management fraud perpetrators and managerial embezzlers were compared with prisoners incarcerated for other property offenses (theft, burglary, larceny, bank robbery, etc.), and a sample of college students. The three groups were compared across several demographic, personal, and psychological characteristics.

The results indicated that incarcerated fraud perpetrators were generally dif-

ferent than other incarcerated prisoners and quite similar to the college students. When compared to other property offenders, fraud perpetrators were less likely to be caught, turned in, arrested, convicted, incarcerated, or to serve long sentences. The fraud perpetrators were also considerably older, which might be expected since it usually takes longer to get into managerial positions or other positions of trust. While only two percent of the property offenders were female, 30 percent of the fraud perpetrators were women. The fraud perpetrators tended to have a much more stable family situation; more were married, they had more children, were less likely to be divorced, and more likely to be active church attenders.

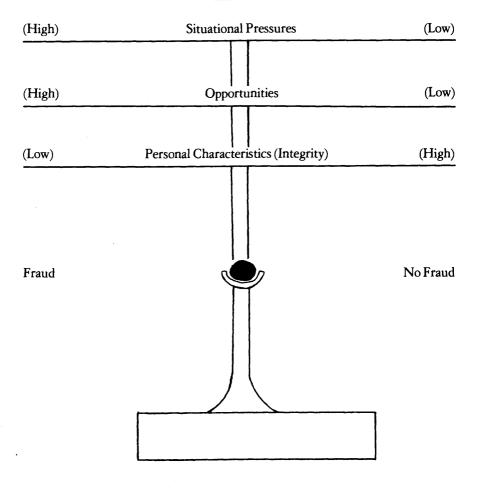
Compared to other property offenders, the fraud perpetrators were better educated, more religious, less likely to have a criminal record or otherwise be criminally inclined, less likely to use alcohol, and considerably less likely to use drugs. Fraud perpetrators were in better psychological health. They enjoyed more optimism, self-esteem, self-sufficiency, achievement, motivation, and family harmony in contrast to the other property offenders who showed more depression, self-degradation, dependence, lack of motivation, and family discord. Fraud perpetrators seemed to have significantly fewer problems; they expressed more social conformity, self-control, kindness, and empathy while other property offenders displayed greater social deviancy, impulsiveness, hostility, and insensitivity to other people.

When compared to college students, the fraud perpetrators differed only slightly. The white-collar criminals suffered more psychic pain, were more dishonest, were more independent, more sexually mature, more socially deviant, and more empathetic. The comparisons showed that fraud perpetrators were much more similar to the students than to other property offenders. In fact, in most cases, they were so different from other criminals, that when incarcerated, they tended to associate more with prison guards and officials than with other prisoners. This part of the study produced one other interesting observation. While most of the fraud perpetrators had virtually no criminal background, there was a small minority that had several previous arrests and convictions. From this observation it might be hypothesized that there are really two types of perpetrators: the typical business person who succumbs to pressures or temptations, and the more criminally-inclined person who would be dishonest in most environments or would commit fraud as just one more in a series of offenses.

An Explanation of Fraud

With all of these positive characteristics, why do these "non-criminal" type managers and executives get involved in fraud? Basically, they become involved because: (1) they are placed in situations where they are faced with a high degree of situational pressure; (2) they are faced with attractive opportunities to commit, conceal, or not be punished for their illegal acts; or (3) they have a low level of personal integrity or honesty. These three forces interact to determine whether or not a person will commit fraud. A person with a high level of integrity and little opportunity and pressure to commit fraud will most likely behave honestly. But criminal acts become increasingly likely as individuals with lower levels of personal honesty are placed in situations with increased pressure or convenient opportunities to commit a crime. Exhibit A is a graphic description of the interaction of the fraud motivating forces.

Exhibit A

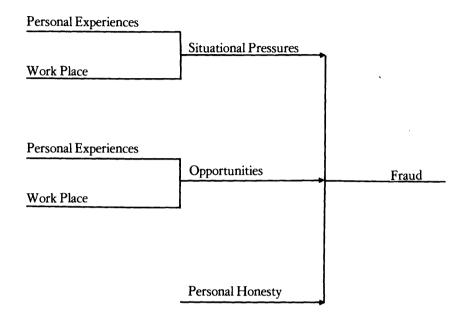


The forces that contribute to these three motivations are largely determined at three levels: society, the work place, and personal experiences. What is frightening is that the forces causing an increase in fraud are greater than ever today and are increasing on all three levels. The societal factors, which contribute to fraud by either increasing overall opportunities or creating situational pressures, provide a backdrop for the work place and personal factors. Exhibit B depicts this relationship.

There are at least eight societal factors that contribute to lowering the general level of honesty and magnifying the pressures and opportunities experienced by managers at work and in their personal lives. These factors⁷ are: (1) failure of businesses to prosecute, (2) problems with our ciminal justice system, (3) ostracism of whistle blowers, (4) a lowered level of personal integrity, (5) inflation, (6)

Exhibit B

SOCIETY



increased size of organizational units, (7) increased use of computers, and (8) proliferation of egalitarian ideas.

Certainly, it would be difficult for auditors to change many of these societal factors. Maybe a strong lobbying effort or high placed connections could help, but generally auditors must live with these factors.

The combination of increased responsibilities to detect fraud, increased societal reinforcement for fraud, and the absence of an obvious criminal type profile makes it imperative that auditors make fraud detection an explicit part of their audit. We believe there are two steps auditors must take to reduce their exposure to fraud. First, they must make sure that only "clean" firms are accepted as clients. Many well known frauds have involved new clients (e.g., Home-Stake Production, National Student Marketing, Republic National Life, and Stirling Homex). We have previously argued⁸ for the use of investigative agencies as a better way to screen potential new clients. A thorough review of prospective clients should help to eliminate exposure to those frauds committed by the criminally-inclined perpetrators.

Secondly, auditors can pay much closer attention to situational pressures and opportunities experienced by managers at both the work place and in their personal lives. One way to focus on these factors would be to include a "red flag" checklist as part of the audit program. Presently, there are several such checklists available. One rather comprehensive checklist that includes situational pressure, opportunity, and personal characteristic red flags is included in Exhibit C.

Exhibit C Situational Pressure Red Flags

Personal Situational Pressures

- 1. High personal debts or financial losses
- 2. Inadequate incomes
- 3. Living beyond one's means
- 4. Extensive stock market or other speculation
- 5. Excessive gambling
- 6. Involvement with members of the opposite sex
- 7. Undue family, company, or community expectations
- 8. Excessive use of alcohol or drugs
- 9. Perceived inequities in the organization
- 10. Resentment of superiors
- 11. Frustration with the job
- 12. Peer group pressures
- 13. Greed or desire for self-enrichment and personal gain

Company Situational Pressures

- 1. Unfavorable economic conditions within the industry
- 2. Heavy investments or losses
- 3. Insufficient working capital
- 4. Dependence on one or two products, customers, or transactions
- Excess capacity
- Severe obsolescence
- 7. High debt
- 8. Extremely rapid expansion through new business or product lines
- 9. Reduced ability to acquire credit
- Profit squeeze (costs and expenses rising higher and faster than sales and revenues)
- 11. Difficulty in collecting receivables
- 12. Unusually heavy competition
- 13. Restrictive loan agreements
- 14. Progressive deterioration in quality of earnings
- 15. Significant tax adjustments

- 16. Urgent need for favorable earnings (to support high price of stock, meat earnings forecast, etc.)
- 17. Need to gloss over a temporarily bad situation (in order to maintain management position and prestige)
- 18. Significant litigation (especially between stockholders and management)
- 19. Unmarketable collateral
- 20. Significant reduction in sales backlogs indicating future sales decline
- 21. Long business cycle
- 22. Existence of revocable and possible imperiled licenses (especially when necessary for the continuation of business)
- 23. Suspension or delisting from a stock exchange
- 24. Pressure to merge
- 25. Sizable inventory increase without comparable sales increases

Opportunity Red Flags

Personal Opportunities

- 1. Extensive familiarity with operations (including cover-up capabilities) and in a position of trust
- 2. Close association with cohorts, suppliers, and other key people
- 3. A firm which does not inform employees about rules and disciplinary actions of fraud perpetrators
- 4. A firm in which there is rapid turnover (quit or fired) of key employees
- 5. A firm in which there are no annual vacations or transfers
- 6. A firm which does not use adequate personnel screening policies when hiring new employees to fill positions of trust
- 7. A firm in which there is an absence of explicit and uniform personnel policies
- 8. A firm which does not maintain accurate personnel records of dishonest acts or disciplinary actions for such things as alcoholism and/or drug abuse
- 9. A firm which does not require executive disclosures and examinations
- 10. A firm which has a dishonest management and/or environment
- 11. A firm which has a dominant top management
- 12. A firm which is always operating on a crisis basis
- 13. A firm which pays no attention to details
- 14. A firm in which there is too much trust in key employees
- 15. A firm in which there are few interpersonal relationships
- 16. A firm which has unrealistic productivity measurements
- 17. A firm which has poor compensation practices
- 18. A firm in which there are no vested employee interests
- 19. A firm which has inadequate training programs

Company Opportunities

1. A firm which has related party transactions

- 2. A firm which has a very complex business structure
- 3. A firm which does not have an effective internal auditing staff
- 4. A highly computerized firm
- 5. A firm in atypical or "hot" industries
- 6. A firm which uses several different auditing firms or changes auditors often
- 7. A firm which has a reluctance to give auditors needed data
- 8. A firm which uses a large number of banks none of which can see the entire picture
- 9. A firm with inadequate internal controls
- 10. A firm which uses unduly liberal accounting practices
- 11. A firm which has poor accounting records
- 12. A firm which has inadequate staffing in the accounting department
- 13. A firm which inadequately discloses unusual accounting practices

Personal Characteristic Red Flags

- 1. A person with low moral character (possessing deceptive or dishonest tendencies, for example)
- 2. A person who rationalizes his contradictory behavior
- 3. A person without a strong code of personal ethics
- 4. A person who is a "wheeler dealer" (someone who has a desire for power, influence, or social status)
- 5. A person who lacks stability (employment history, etc.)
- 6. A person with a strong desire to beat the system
- 7. A person with a criminal or questionable background
- 8. A person with poor credit rating and financial status

The "red flag" list provided in Exhibit C is the one developed by the authors. It is more comprehensive than other available lists and does have the advantage of having been partially validated. To illustrate how relevant these red flags have been to past cases of fraud, we have selected 27 of the 72 cases studied and examined their relevance to these red flags. The 27 cases are listed in Exhibit D.

Exhibit D

Allied Crude Vegetable Oil Ampex BarChris Black Watch Farms Cenco CIT Financial Continental Vending Equity Funding Fisco Four Seasons Georgia Pacific Giant Stores Hochfelder Home-Stake
McKesson & Robbins
National Student Marketing
Penn Central
Photon
Republic National Life
Stirling Homex
Talley Industries
U.S. vs. Benjamin
Ultramares
Vesco
Westec
Westgate
Yale Express

All the publicly available literature on these cases was reviewed to see if any explicit mention of these factors could be found. While the results that follow (Exhibit E—at end of paper) indicate that almost all of the red flags were mentioned in the writings about many of the 27 cases, the absence of a case from a given red flag does not mean the red flag was not a factor in the case. Certainly, the authors who wrote about the cases had a perspective much different than ours and thus the mention of the variables in the publicly available literature is a very demanding criterion.

It is quite obvious that these "red flags" can be associated with many of the major past cases of fraud. While this association doesn't guarantee that future frauds will also have these relationships, it does seem that auditors should pay some attention to these facts. While auditors have given heed to many of the opportunity factors (through internal control checks) and recently even examined some of the firm pressures, there are many of these factors that have not been explicitly considered.

We realize that it would be difficult to investigate many of these variables. Certainly, most auditors will and probably should be reluctant to probe managers about their personal gambling and sex habits. However, we would argue that the decision of whether or not to use these factors is a cost-benefit question. We are convinced that more frauds could be detected earlier if these red flags were used. We also recognize the costs involved in doing so. Thus, only when the perceived benefits exceed the perceived costs should they be used. Also, the cost of using the various red flags is not equal. Some have relatively low costs while the costs of others may be almost prohibitive. In general, we would argue that auditors should look at each red flag from a cost-benefit perspective.

We also realize that even if used, the presence of one or even all of these red flags doesn't necessarily guarantee the existence of fraud. We would argue that as the number of red flags increases, the probability of fraud increases. At best, however, the red flags can only be viewed as a risk-evaluation tool. Also, the relevance and fraud predictability of the red flags haven't yet been assessed. Certainly, some are "better" than others. We are presently working on a discriminant approach that should provide insight into which "red flags" are the best fraud predictors.

Concluding Comments

Management fraud is a major problem that concerns auditors. The auditing literature, standards, and court cases expect auditors to assume more responsibility for its detection. Management fraud will continue to increase because society reinforces those factors which contribute to fraud. Fraud perpetrators generally have personal characteristics that are typical to those of college students, and most likely, the general population. They have personal characteristics much different than other property offenders. There are three factors that contribute to fraud: (1) situational pressures, (2) opportunities, and (3) personal honesty. Because of the combination of more responsibility for fraud detection, increasing reinforcement for fraud, and the absence of a "criminal type" profile, it is critical that auditors become better fraud detectives. Two ways to be better detectives are: (1) to better screen potential new clients, and (2) to look for situational pressure, opportunity, and personal characteristic red flags both in organizations and in managers' and executives' personal lives.

Exhibit E Situational Pressure Red Flags

Personal Situational Factors

 High Personal Debts or Financial Losses
 Allied Crude Vegetable Oil
 Black Watch Farms
 Continental Vending
 Four Seasons
 Hochfelder
 Stirling Homex
 Vesco

- 2. Inadequate Incomes Vesco
- 3. Living Beyond One's Means
 Allied Crude Vegetable Oil
 Black Watch Farms
 Equity Funding
 Four Seasons
 Home-Stake
 McKesson & Robbins
 National Student Marketing
 Penn Central
 Stirling Homex

 4. Extensive Stock Market
- Extensive Stock Market
 Speculation
 Allied Crude Vegetable Oil
 Black Watch Farms
 Continental Vending
 Four Seasons
 Georgia Pacific

McKesson & Robbins Penn Central Vesco

- 5. Excessive Gambling
 Four Seasons
 Penn Central
 Vesco
- Involvement with Members of
 Opposite Sex
 Allied Crude Vegetable Oil
 Equity Funding
 McKesson & Robbins
 Penn Central
- 7. Undue Family, Company, or
 Community Expectations
 Ampex
 Black Watch
 CIT Financial
 Equity Funding
 Stirling Homex
 Talley Industries
 Yale Express
- 8. Excessive Usage of Alcohol or Drugs Equity Funding

9. Perceived Inequities in

Organization

Allied Crude Vegetable Oil

Equity Funding

McKesson & Robbins

Vesco

10. Resentment of Superiors

Vesco

11. Frustration with Job

None of the 27 major cases

12. Peer Group Pressures

Equity Funding Stirling Homex

13. Greed or Desire for Self Enrichment or Gain

Allied Crude Vegetable Oil

Continental Vending

Equity Funding

Four Seasons

Hochfelder

Home-Stake

McKesson & Robbins

Penn Central

Stirling Homex

Talley Industries

Vesco

Westec

Westgate

Company Situational Pressures

1. Unfavorable Economic Conditions in Industry

Allied Crude Vegetable Oil

Ampex BarChris

U.S. vs. Benjamin

Equity Funding

Four Seasons

Giant Stores

McKesson & Robbins

Penn Central

Republic National Life

Stirling Homex

Westec

Yale Express

2. Heavy Investments or Losses Allied Crude Vegetable Oil

Ampex

BarChris

Continental Vending

Equity Funding

Fisco

Four Seasons

Georgia Pacific

Giant Stores Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Photon

Republic National Life

Stirling Homex

Talley Industries

Westgate

Yale Express

3. Insufficient Working Capital

Allied Crude Vegetable Oil

Ampex

BarChris

U.S. vs. Benjamin

Black Watch Farms

Cenco

CIT Financial

Continental Vending

Equity Funding

Four Seasons

Giant Stores

Hochfelder

Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Stirling Homex

Yale Express

Tale Express

4. Dependence on Single Products, Customers, or Transactions

Allied Crude Vegetable

BarChris

Black Watch Farms

CIT Financial

Four Seasons

Georgia Pacific

McKesson & Robbins

Republic National Life

Stirling Homex

Talley Industries

Westgate

5. Excess Capacity

Allied Crude Vegetable Oil McKesson & Robbins

Penn Central Yale Express

6. Severe Obsolescence

Ampex

McKesson & Robbins

Penn Central

Photon

Stirling Homex

7. High Debt

Allied Crude Vegetable Oil

Ampex BarChris

Black Watch Farms

Cenco

CIT Financial

Continental Vending

Equity Funding

Four Seasons

Giant Stores

Hochfelder Penn Central

Photon

Republic National Life

Stirling Homex

Ultramares

Westec

Westgate

Yale Express

8. Extremely Rapid Expansion

Allied Crude Vegetable Oil

Ampex

BarChris

U.S. vs. Benjamin

Black Watch Farms

Cenco

Equity Funding

Fisco

Four Seasons

Georgia Pacific

Giant Stores

Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Photon

Republic National Life

Stirling Homex

Talley Industries

Vesco Westec

Westgate

Yale Express

9. Reduced Ability to Acquire Credit

Ampex

BarChris

Black Watch Farms

CIT Financial

Continental Vending

Four Seasons

Giant Stores

McKesson & Robbins

Penn Central

Photon

Westec

Yale Express

10. Profit Squeeze

Ampex

Four Seasons

Home-Stake

National Student Marketing

Penn Central

Stirling Homex

Talley Industries

Yale Express

11. Difficulty Collecting Receivables

Ampex

BarChris

CIT Financial

Continental Vending

Equity Funding

Four Seasons

Giant Stores

National Student Marketing

Penn Central

Stirling Homex

Yale Express

12. Unusually Heavy Competition

Allied Crude Vegetable Oil

Ampex

BarChris

Four Seasons

Giant Stores

Yale Express

13. Restrictive Loan Agreements

Ampex

McKesson & Robbins Republic National Life Stirling Homex

14. Deterioration in Quality of

Earnings

Allied Crude Vegetable Oil

Ampex BarChris

CIT Financial

Equity Funding Giant Stores

Home-Stake

National Student Marketing

Penn Central Stirling Homex

Westec

15. Significant Tax Adjustments Allied Crude Vegetable Oil

Continental Vending

Four Seasons

Home-Stake

16. Urgent Need for Favorable Earnings

Ampex

BarChris

U.S. vs. Benjamin Black Watch Farms

Cenco

Continental Vending

Equity Funding Four Seasons

Giant Stores

McKesson & Robbins

National Student Marketing

Penn Central

Photon

Republic National Life

Stirling Homex

Talley Industries

Westec

Westgate Yale Express

17. Need to Gloss Over Temporarily

Bad Situation

Ampex BarChris

Cenco

CIT Financial Equity Funding Giant Stores

Home-Stake

National Student Marketing

Penn Central

Republic National Life

Stirling Homex

Westgate

Yale Express

18. Significant Litigation

Allied Crude Vegetable Oil

Equity Funding

Four Seasons

Georgia Pacific

Home-Stake

Penn Central

Republic National Life

Talley Industries

19. Unmarketable Collateral

Allied Crude Vegetable Oil

U.S. vs. Benjamin

CIT Financial

Continental Vending Republic National Life

20. Significant Reduction in Sales

Backlog

BarChris

Stirling Homex

Talley Industries

21. Long Business Cycle

Ampex

BarChris

CIT Financial

Stirling Homex

22. Existence of Imperiled Licenses

Allied Crude Vegetable Oil

Four Seasons

Republic National Life

23. Suspension From Stock Exchange

Allied Crude Vegetable Oil

Black Watch Farms

Cenco

Continental Vending

Equity Funding Four Seasons Home-Stake Photon

Republic National Life Stirling Homex

Talley Industries

Vesco Westec Westgate 24. Pressure to Merge Georgia Pacific

Giant Stores

National Student Marketing

Penn Central Talley Industries

Westec

25. Sizable Inventory Increase

No major cases

Opportunity Red Flags

Personal Opportunities

1. Familiarity With Operations (Cover Up Ability)

Allied Crude Vegetable Oil

Ampex BarChris

U.S. vs. Benjamin Black Watch Farms

Cenco

CIT Financial

Continental Vending

Equity Funding Four Seasons Georgia Pacific Giant Stores Hochfelder Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central Photon

Republic National Life

Stirling Homex Ultramares Westec Westgate Yale Express

2. Close Association With Cohorts
Allied Crude Vegetable Oil

BarChris

U.S. vs. Benjamin Black Watch Farms Continental Vending Equity Funding Four Seasons Giant Stores Hochfelder Home-Stake

McKesson & Robbins
National Student Marketing

Penn Central Photon

Republic National Life

Stirling Homex

Vesco Westec Westgate Yale Express

3. Doesn't Inform About Rules For

Fraud

Equity Funding

4. Rapid Turnover of Key People Allied Crude Vegetable Oil

Continental Vending
Equity Funding

Four Seasons Giant Stores Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Photon

Stirling Homex

Vesco

5. No Mandatory Vacations or

Transfers

Allied Crude Vegetable Oil

BarChris

Cenco

Continental Vending Equity Funding Four Seasons Giant Stores

Hochfelder

McKesson & Robbins

National Student Marketing

6. No Adequate Screening Policies

Equity Funding

Giant Stores

McKesson & Robbins

7. Absence of Explicit Personnel Policies

Equity Funding

8. Doesn't Maintain Adequate

Personnel Records
Equity Funding

McKesson & Robbins

9. No Executive Disclosure

Requirements

Continental Vending

Four Seasons

Home-Stake Hochfelder

McKesson & Robbins

Penn Central

Westec

Westgate

10. Unethical Management

Allied Crude Vegetable Oil

Ampex

BarChris

U.S. vs. Benjamin

Black Watch Farms

Cenco

Continental Vending

Equity Funding

Fisco

Four Seasons

Georgia Pacific

Giant Stores

Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Republic National Life

Stirling Homex

Talley

Ultramares

Westec

Westgate

Yale Express

11. Dominant Top Management

Allied Crude Vegetable Oil

Ampex

BarChris

Black Watch Farms

Cenco

Continental Vending

Equity Funding

Four Seasons

Georgia Pacific

Giant Stores

Hochfelder

Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Republic National Life

Stirling Homex

Talley Industries

Vesco

Westec

Westgate

Yale Express

12. Operates on a Crisis Basis

Allied Crude Vegetable Oil

BarChris

CIT Financial

Equity Funding

Giant Stores

Republic National Life

Stirling Homex

13. Pays No Attention to Details

Allied Crude Vegetable Oil

National Student Marketing

Penn Central

Ultramares

14. Too Much Trust in Key

Employees

Allied Crude Vegetable Oil

Ampex

BarChris

Continental Vending

Equity Funding Georgia Pacific Giant Stores

Hochfelder

McKesson & Robbins

Penn Central Stirling Homex Westec

Westgate Yale Express

15. Low Interpersonal Relationships

Ampex

Equity Funding Penn Central Yale Express

16. Unrealistic Productivity

Measurements

Allied Crude Vegetable Oil

Ampex

Four Seasons

Talley Industries

17. Poor Compensation Practices
Allied Crude Vegetable Oil

Home-Stake

18. Lack of Internal Security
Allied Crude Vegetable Oil

19. Inadequate Training Programs

Equity Funding Giant Stores Yale Express

Company Opportunities

Related Party Transactions
 Allied Crude Vegetable Oil

BarChris

Cenco

CIT Financial

Continental Vending

Equity Funding

Four Seasons

Home-Stake

McKesson & Robbins

Penn Central

Republic National Life

Stirling Homex

Talley Industries

Vesco Westec Westgate

2. Complex Business Structure

Allied Crude Vegetable Oil

Ampex BarChris

Cenco

Equity Funding Four Seasons Georgia Pacific

Home-Stake

McKesson & Robbins

National Student Marketing

Penn Central

Republic National Life

Stirling Homex

Talley Industries

Vesco Westec

Westgate

3. No Effective Internal Auditors

Allied Crude Vegetable Oil

Ampex

Cenco

Continental Vending

Equity Funding

Fisco

Four Seasons

Giant Stores

Home-Stake

McKesson & Robbins

Penn Central

Westec

Westgate

Yale Express

4. Highly Computerized Firm

Cenco

Equity Funding

Four Seasons

Georgia Pacific

Penn Central

Stirling Homex

Westgate

Yale Express

5. Atypical or "Hot" Industries

Ampex

BarChris

U.S. vs. Benjamin

Black Watch Farms

Equity Funding Four Seasons Georgia Pacific Giant Stores Home-Stake

National Student Marketing

Stirling Homex

6. Different Auditors or Change of Auditors Often

Black Watch Farms
Continental Vending
Equity Funding
Home-Stake

National Student Marketing

Republic National Life

Westgate

7. Reluctance to Give Auditors

Needed Data

Allied Crude Vegetable Oil

BarChris

U.S. vs. Benjamin Black Watch Farms Continental Vending Equity Funding Four Seasons Georgia Pacific

Republic National Life

Stirling Homex Talley Industries Ultramares Westec

Westgate Yale

8. Large Number of Banks
Allied Crude Vegetable Oil

BarChris CIT Financial

Continental Vending

Equity Funding Four Seasons Georgia Pacific

McKesson & Robbins

Penn Central

Republic National Life

Stirling Homex Ultramares

Westec

9. Inadequate Internal Controls

Allied Crude Vegetable Oil

Ampex

Black Watch Farms Equity Funding Hochfelder

Fisco

Four Seasons Giant Stores Home-Stake

McKesson & Robbins

National Student Marketing

Photon Stirling Homex Talley Industries Ultramares

Penn Central

Westec Westgate Yale Express

10. Unduly Liberal Accounting

Practices

Allied Crude Vegetable Oil

Ampex BarChris

U.S. vs. Benjamin Black Watch Farms

CIT Financial Continental Vending

Equity Funding

Fisco

Four Seasons

National Student Marketing

Penn Central Photon

Republic National Life

Stirling Homex Talley Industries Ultramares Westec Westgate Yale Express

11. Poor Accounting Records

Allied Crude Vegetable Oil

Ampex BarChris

U.S. vs. Benjamin Continental Vending

Equity Funding

Four Seasons Home-Stake

National Student Marketing

Photon

Republic National Life Stirling Homex Talley Industries Ultramares

Yale Express

12. Inadequate Staffing in Accounting

Department

Allied Crude Vegetable Oil

U.S. vs. Benjamin

Cenco

National Student Marketing

13. Inadequate Disclosure of Unusual Accounting Practices

Allied Crude Vegetable Oil

Ampex BarChris

U.S. vs. Benjamin Black Watch Farms CIT Financial Continental Vending Equity Funding

Equity Funding Four Seasons Georgia Pacific Giant Stores Home-Stake

National Student Marketing

Penn Central

Republic National Life

Stirling Homex Talley Industries Ultramares Westec Westgate

Personal Characteristics Red Flags

1. Low Moral Character

Allied Crude Vegetable Oil

Ampex BarChris

U.S. vs. Benjamin Black Watch Farms Continental Vending Equity Funding Four Seasons

Hochfelder Home-Stake

McKesson & Robbins National Student Marketing

Stirling Homex Ultramares Vesco Westgate Yale Express

2. Rationalizer
Equity Funding
Westgate

3. No Strong Code of Personal Ethics

Allied Crude Vegetable Oil U.S. vs. Benjamin Black Watch Farms

Equity Funding

Home-Stake

McKesson & Robbins

Vesco Westgate Yale Express

4. Wheeler-Dealer

Allied Crude Vegetable Oil

Ampex

U.S. vs. Benjamin Black Watch Farms Continental Vending Equity Funding Four Seasons Georgia Pacific

Home-Stake McKesson & Robbins

National Student Marketing

Republic National Life Stirling Homex

Talley Industries

Vesco Westec Westgate Yale Express

5. Lacks Stability
Equity Funding

McKesson & Robbins Stirling Homex

6. Strong Desire to Beat System McKesson & Robbins

7. Criminal or Questionable
Background
Allied Crude Vegetable Oil
U.S. vs. Benjamin
Black Watch Farms

Continental Vending Home-Stake McKesson & Robbins Penn Central Stirling Homex Westgate

8. Poor Credit Rating or Financial Status McKesson & Robbins

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Footnotes

- 1. In addition to the authors of this paper, the research team consisted of David Cherrington (Associate Professor of Organizational Behavior—B.Y.U), Reed Payne (Professor Psychology—B.Y.U.), and Allan Roe (Criminal Psychologist—Utah State Prison).
 - 2. A complete bibliography can be found in Albrecht et. al. [1].
 - 3. A separate case bibliography is included in Albrecht et. al. [1].
 - 4. This checklist is included in Romney et. al. [8].
- 5. While the definition of fraud used in this paper includes only improper action resulting in a material misstatement of financial statements, the original research also included a study of major embezzlements and defalcations.
 - 6. Sample sizes were 49 fraud perpetrators, 677 property offenders, and 148 college students.
 - 7. A full description and analysis of these factors is included in Albrecht et. al. [5].
 - 8. See Romney and Albrecht [10].
- 9. In addition to ours, fraud checklists have been prepared by the AICPA, Coopers and Lybrand, and Touche Ross & Co.