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Charles C. Emma, FCAS, MAAA

February 13, 2007

Department of Environmental Protection Office of Administration 601 57th Street SE Charleston, WV 25304 ATTN: Mr. Chuck Bowman

Dear Mr Bowman:

Enclosed is our proposal to provide actuarial services to West Virginia Department of Environmental Protection (WVDEP). We trust that you will find it in accordance with your Request for Quotation.

If you have any questions, comments, or if you require anything further please call me at (630) 262-0954

Sincerely,

Charles C. Emma, FCAS, MAAA Principal & Consulting Actuary

A Proposal to Serve State of West Virginia Department of Environmental Protection Division of Land Restoration Special Reclamation Fund (WYDEP)

RFQ Number DEP13936

February 13, 2007

Pinnacle Actuarial Resources, Inc. 524 W State St., Suite G Geneva, IL 60134

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State of West Virginia Department of Environmental Protection

CORPORA TE EXPERIENCE

Documentation of Qualifications

- <u>Prior Experience</u> We have included, as "Appendix A", Pinnacle's report for the Kentucky Underground Storage Tank Fund.
- <u>CAS Credentials</u> Attached as Appendix B.
- Adequate Number of Employees Our full-time staff totals 40, including fifteen credentialed actuaries. Among our staff we employ many talented professionals trained and experienced in reviewing State Managed Insurance Fund issues. Our staff is very qualified and adequate to fulfill the requirements of this project.

Office Locations

Our office locations include Chicago, New York, San Francisco, Indianapolis, Des Moines, Columbus (OH), and Bloomington, IL.

Professional Service Consultants

Our consultants include seven Principals and eight Consultants

Principals

Shawna S. Ackerman, FCAS, MAAA Leroy A. Boison, FCAS, MAAA Charles C. Emma, FCAS, MAAA Joseph A. Herbers, ACAS, MAAA Steven G. Lehmann, FCAS, FSA, FCIA, MAAA Roosevelt C. Mosley, FCAS, MAAA Robert J. Walling III, FCAS, MAAA

Consultants

Erich A Brandt, FCAS, MAAA Chris Carlson, FCAS, MAAA Kiera E. Doster, FCAS, MAAA Derek Freihaut, FCAS, MAAA Laura Maxwell, FCAS, MAAA Paul Vendetti, FCAS, MAAA John E. Wade, ACAS, MAAA Gary Wang, FCAS, MAAA

Similar Projects

- Kentucky Division of Waste Management Pinnacle Actuarial Resources, Inc (Pinnacle) was retained by the Kentucky Division of Waste Management (DWM) to conduct an actuarial study of the Petroleum Storage Tank Environmental Assurance Fund (PSTEAF) as of June 30, 2005. We developed estimates of loss reserve and made projections of the fund's future financial positions and cashflows in order to evaluate the fund's financial position.
- Missouri Petroleum Storage Tank Insurance Fund From December, 2004 through May, 2005 Pinnacle completed an analysis of this underground storage tank fund for producers, transporters, and distributors of petroleum throughout the State of Missouri. Loss reserve estimates were produced in this study separately for remedial vs. insurance coverages. This work involved the prospective funding analysis through the fund's proposed sunset date in 2010.
- State of Iowa Underground Petroleum Storage Tank Insurance Fund In 2000 the state's
 Underground Storage Tank Fund was privatized according to its statutes. It was
 purchased by members of the Iowa petroleum industry and it was renamed Petroleum
 Marketers Mutual Insurance Company. Pinnacles actuaries provided loss reserve study
 and financial projection for the Iowa UST.

Corporate Experience

<u>lowa Insurance Division Review of PMMIC</u> - Several separate actuarial studies have been conducted by Pinnacle's consultants as commissioned by the State of Iowa's Division of Insurance. Various actuarial studies including loss reserving analyses, financial projections, valuations, and overall capital adequacy analysis studies have been conducted since 2000.

Bureau of Workers Compensation (BWC) – In 2006 Pinnacle's actuaries have been retained by the Ohio BWC to conduct a workers compensation reserve review to provide a second, independent opinion with respect to their claim liabilities. The BWC is the sole provided of workers compensation coverage in the state of Ohio with annual premiums exceeding \$2 Billion. Chuck Emma, FCAS, MAAA, is the lead client service professional for the reserve study on this engagement.

Accident Fund Insurance Company of America - Loss reserve analysis of monoline workers compensation carrier Accident Fund, once the State Fund of Michigan remains the market leader in Michigan Pinnacle Actuarial Resources Principal, Chuck Emma served as the Accident Fund's appointed actuary each year from 1995 through 2002. The Accident Fund recorded approximately \$800 Million in loss reserves as of year-end 2005.

<u>SAIF</u> - In 2000 Pinnacle Consultants, Chuck Emma and Shawna Ackerman were engaged to assist it in evaluating SAIF's internal risk modeling applications to project surplus. SAIF is a state owned, competitive writer of workers compensation in the State of Oregon. The consultants' role involved the evaluation of the process in generating stochastic risk factors. Particular attention was paid as to the runoff of workers compensation loss reserves.

Conflict of Interest

Pinnacle Actuarial Resources, Inc. does not have an existing conflict of interest with the State of West Virginia. Our policy regarding possible conflict of interest is listed below.

Before responding to any RFP, or beginning a review of a specific company's rate filing the consultant must first determine that no potential conflict of interest, or no appearance of conflict of interest, exists. At Pinnacle our conflict check covers past, current and future client relationships.

A conflict of interest may exist on two levels:

- i) A conflict of interest exists if Pinnacle, or the account executive, has any financial interest which may limit the consultant's ability to render an objective, professional opinion
- ii) A conflict exists if working for one client harms our ability to do business with another client

In most cases, if the work is more than three years old that should remove concerns about potential conflicts of interest

The "business" conflict in (ii) typically arises when a client demands that Pinnacle not do business with one of the client's competitors. This should not be a conflict we would face in any work done for the Kentucky Department of Insurance.

The "professional" conflict of interest in (i) is the more common situation and the one to which references of "conflict of interest" usually applies. The key in determining the existence of a conflict is the ability of the consultant and Pinnacle to render an objective opinion.

Our consultant base is large enough to exclude any consultant from the team of consultants that might be reviewing a specific company and still provide an efficient, professional, and comprehensive work product. However, we will check with the Department on any potential conflicts before accepting an assignment where the potential for conflict exists.

STAFF EXPERIENCE AND QUALIFCATIONS

Project Team

The Pinnacle consultants assigned to this proposed project are both knowledgeable and experienced in Underground Storage Tank (SRF) reserving for state-owned insurers, private carriers, and self-insureds Below we provide a list of the consultants who will be assigned to this project and what role each will play. Their vitae are provided in the appendices at the back of this proposal.

- o Chuck Emma, FCAS, MAAA Chief Project Consultant
- o Shawna Ackerman, FCAS, MAAA Peer Review

The professional biographies of these actuaries are shown in one of the appendices at the back of this proposal. Pinnacle also has a staff of trained analysts and technicians who are able to produce the technical work product supporting our work

Accreditation and Professional Membership

Each of Pinnacle's consultants, including those assigned to this project, are members of the Casualty Actuarial Society and the American Academy of Actuaries. Documentation to these facts is provided within.

Experience

Both of the consultants assigned to this project have well over ten years experience in workers compensation loss reserving and funding issues. Many of the exemplary clients listed at the back of this proposal are served by the assigned professional in this document

West Virginia Engagements

Pinnacle Actuarial Resources, Inc. does not have any actuarial engagements with the State of West Virginia.

Experience with Actuarial Studies for Other States

As mentioned above the exemplary client list at the back is evidence of Pinnacle's experience with state and private authorities in State managed insurance funds.

Familiarity with the Special Reclamation Fund

Charles Emma, while at a previous firm, twice conducted an actuarial study of the West Virginia Special Reclamation Fund. The first study was conducted in 1993 the second in 1994.

CORPORATE BACKGROUND

<u>About Pinnacle</u> - Pinnacle is one of the 10 largest property/casualty actuarial consulting firms in the U.S., specializing in loss reserving, insurance pricing, alternative markets and financial risk modeling. Our clients, which are insurers, state regulators, insurance trade organizations,

self-insured businesses, captive insurers, and a variety of risk retention groups, include many of the top U.S insurance carriers as well as many small to medium size insurers. Our consultants have been in property and casualty actuarial consulting since 1984. For more information concerning our firm and the services we provide, please visit our Website at www.pinnacleactuaries.com.

Equal Opportunity Employer/Affirmative Action Plan

Pinnacle is an equal opportunity employer and does not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, national origin, ancestry, marital status, physical or mental disability or unfavorable discharge from military service. Pinnacle also proactively seeks to ensure that applicants are employed and treated during employment without regard to these factors. Pinnacle also has an Affirmative Action Plan for equal employment opportunity.

Recent External Quality Control Report/Peer Review Procedures and Requirements

Pinnacle does not have an outside external quality control report.

Pinnacle utilizes the internal audit procedures of peer review. The primary purpose of peer review is to maximize the quality and comprehension of our work product, and to minimize our own professional liability exposure within practical time and fee constraints.

The interest of the firm's clients, and those of the firm itself, mandate that work performed by the firm, and the communication of that work by the firm, conform to high professional standards. Appropriate recognition of such interests deserves and requires adoption of and compliance with certain internal standards and procedures regarding work performance and communication of the work product, the objectives of such standards and procedures being to attempt to determine, to the extent practicable, that:

- methods and assumptions employed are appropriate and acceptable in the circumstances;
- judgments made and applied are reasonable and supportable;
- communications to clients are accurate, complete and understandable; and
- work performed adequately supports all statements and conclusions

A system of peer review is the tool we use to exercise due care and diligence such that these objectives are achieved.

File documentation is an important element of peer review. The file must maintain an adequate trail which minimizes the risk of an undocumented or unsupported work product when viewed from the perspective of an independent third party.

The peer review system is intended to foster the maintenance of high professional standards and practices, consistently applied to Pinnacle Actuarial Resources, Inc (the Firm's) assignments. Thus, the review should not be considered perfunctory, even in cases of the most routine or straightforward assignments

It will be the expressed duty of the Professional Standards Officer (PSO) to ensure the work product of the firm abides by these guidelines.

Our Experience in State Managed Insurance Funds

Pinnacle's consultants have solid experience in analysis of liability costs for state-owned funds. Within the past twelve months we have conducted studies for the states of Kentucky, Missouri and Iowa. This experience includes analysis of both state-run and privatized funds. Detailed description of these prior work engagements is provided in the *Relevant Experience* section of this proposal.

Requirements – Pinnacle is able and willing to meet all the stated requirements of this proposal.

PROJECT REQUIREMENTS

The State of West Virginia Department of Environmental Protection Division of Procurement Services has issued a Request for Proposals (RFP) seeking assistance from an independent actuarial consulting firm to study the liabilities of the Special Reclamation Fund (SRF)

From a review of the RFP it is clear to Pinnacle what SRF requires. SRF needs an actuarial analysis of the fund's loss experience in order to provide the management of the funds with reasonable conclusions as to the following:

- Meet with the Director of the West Virginia Department of Environmental Protection's Division of Land Restoration Special Reclamation Fund, to discuss project specifics and commence work shortly after the award of the project
- Determine if the fund is actuarially solvent and that revenues are sufficient to address needed site reclamation costs, such that the WVDEP is able to continue funding the system. We will carry this out by constructing financial projections on the Fund over the next several years.
- o The actuarial study shall determine the total aggregate liability, which shall include current liabilities and an estimate of future liabilities in terms of established risk categories through 2016. In doing so, the contractor shall estimate an approximate costs/rate per site. Pinnacle will adhere to appropriate actuarial loss reserving standards and methods in meeting this requirement
- o Provide the estimated amount of funding needed to fully fund the total liability that may arise from registered mine sites SRFs and expected growth (or decline) of the SRF population through January 2016 This will result from our financial projections.
- O Provide monthly progress reports to the Director. This is a natural component of Pinnacle's client service standards

- o Provide the SRF Program with an initial draft report on or before May 1, 2007. We will commit to assuring this is on our staff's calendars.
- o Provide the SRF Program with an Exit Conference on or before July 15, 2007. We will commit to assuring this is on our staff's calendars.
- o Provide the SRF Program with a final report on or before August 31, 2007. We will commit to assuring this is on our staff's calendars.

Pinnacle's abilities and resources to accomplish these objectives are demonstrated by its proposed project plan shown in the next section and assigned project team

Project Plan

Our project plan consists of the following steps:

- Preliminary Meeting On-site meeting to gain insight as to background, operations and significance of obtained data
- Data Request Immediately following preliminary meeting, Pinnacle will issue a formal data request outlining all required elements to support our study
- Data Assimilation Pinnacle will organize and assimilate available data into template for technical analysis
- Analysis
 - Observations of historical financial data
 - o Review of structure of SRF
 - Selection of appropriate methods and assumptions
 - Incorporation of Business Plan
- o Results
 - o Preliminary results
 - o Diagnostics and fine-tuning
 - Finalization of range

- o Follow-Up with SRF
- o Development of Report
 - o Draft and Discussion
 - o Final Report

PROFESSIONAL BIOGRAPHIES

Charles C. Emma

Mr. Emma is a Principal and Consultant with Pinnacle Actuarial Resources, Inc in its Chicago office. He holds a Bachelor of Science degree in Mathematics from the University of Notre Dame, and has twenty three years of actuarial experience.

Mr. Emma is a Fellow of the Casualty Actuarial Society and a member of the American Academy of Actuaries. In 2006 he was elected to the Board of Directors of the American Academy of Actuaries.

Before joining Pinnacle, Mr Emma was employed by Zurich American Insurance Companies and was a consultant with Deloitte & Touche. His expertise is largely focused on involved loss reserving for property/casualty companies and Enterprise Risk Management. He also provides expert testimony in matters regarding Property Casualty insurance. His experience includes: loss reserve studies for insurance companies; financial modeling and valuation of insurance companies and of non-traditional risks; participation on due diligence teams in mergers and acquisitions of property/casualty insurance companies; development of independent loss reserves for large workers compensation carriers; developing of funding and reserving recommendations for self-insured entities; analysis and strategy regarding Risk Based Capital.

Mr. Emma is a frequent speaker on Enterprise Risk Management and loss reserving. He has participated on various professional society research and communication committees. His most recent published article is the prize-winning "Linking DFA to Corporate Strategy," in *CAS Forum*, 2000.

Shawna S. Ackerman

Ms. Ackerman is a Principal and Consultant with Pinnacle Actuarial Resources, Inc, in San Francisco, California. She holds a Bachelor of Arts degree in mathematics with highest honors from Oregon State University. She has 15 years of experience in the property/casualty insurance industry.

Ms. Ackerman is a Fellow of the Casualty Actuarial Society (CAS) and a member of the American Academy of Actuaries (AAA). She currently serves the CAS as a member of the Committee on the Review of Papers and a member of the AAA Committee on Financial Soundness and Risk Management. She has made several presentations to professional groups on issues such as ratemaking for auto, earthquake, and workers compensation insurance.

Prior to joining Pinnacle Actuarial Resources in 1998, Ms. Ackerman was employed by the California Department of Insurance. At the Department, she was responsible for evaluating ratemaking formulas and procedures for most property and casualty lines of insurance; providing expert witness testimony and other litigation support related to Proposition 103 matters; and analyzing loss and loss adjustment expense reserves for workers' compensation carriers.

Ms. Ackerman's areas of practice include providing litigation support and expert witness testimony to insurance Company and financial institutions, reserving, legislative costing, pricing, and development of new lines of business. Ms. Ackerman continues to advise Insurance Departments regarding rate reviews, reserving and regulatory matters. As a member of the Pinnacle Dynamic Financial Analysis (DFA) Team, she has assisted in the development of DFA solutions for several insurers and made presentations on DFA at CAS meetings.

CORPORATE REFERENCES

In this section we provide an exemplary list of the relevant references that Pinnacle's consultants have for underground storage tank projects

Kentucky Petroleum Storage Tank Environmental Assurance Fund

Pinnacle Actuarial Resources, Inc. (Pinnacle) was retained by the Kentucky Division of Waste Management (DWM) to conduct an actuarial study of the Petroleum Storage Tank Environmental Assurance Fund (PSTEAF) as of June 30, 2005. We developed estimates of loss reserve and made projections of the fund's future financial positions and cashflows in order to evaluate the fund's financial position.

Contact Data: Kentucky Petroleum Storage Tank Environmental Assurance Fund Ms Lee Ann Brewer, (502) 564-6716 14 Reilly Road Frankfort, KY 40601

Missouri Petroleum Storage Tank Insurance Fund

From December, 2004 through May, 2005 Pinnacle completed an analysis of this underground storage tank fund for producers, transporters, and distributors of petroleum throughout the State of Missouri Loss reserve estimates were produced in this study separately for remedial vs. insurance coverages. This work involved the prospective funding analysis through the fund's proposed sunset date in 2010

Contact Data:
Missouri Petroleum Storage Tank Insurance Fund
Ms Carol Eighemy, (573) 522-2352
830 E High St. Suite 211
P.O. Box 836 65102
Jefferson City, MO 65101

State of Iowa - Underground Petroleum Storage Tank Insurance Fund (Petroleum Marketers Mutual Insurance Company)

In 2000 the state's Underground Storage Tank Fund was privatized according to its statutes. It was purchased by members of the Iowa petroleum industry and it was renamed Petroleum

Marketers Mutual Insurance Company Several separate actuarial studies have been conducted by Pinnacle's consultants as commissioned by the State of Iowa's Division of Insurance. Various actuarial studies including loss reserving analyses, financial projections, valuations, and overall capital adequacy analysis studies have been conducted since 2000.

Contact Data: Mr. James Armstrong, CFE Chief Examiner Iowa Insurance Division 330 Maple Street Des Moines, Iowa 50319-0065 (515) 281-4096

BIOGRAPHY

SHAWNA S. ACKERMAN

Ms. Ackerman is a Principal and Consultant with Pinnacle Actuarial Resources, Inc., in San Francisco, California She holds a Bachelor of Arts degree in mathematics with highest honors from Oregon State University. She has over 15 years experience in the property/casualty insurance industry.

Ms. Ackerman is a Fellow of the Casualty Actuarial Society (CAS) and a member of the American Academy of Actuaries She currently serves the CAS as a member of the Committee on Dynamic Risk Modeling and the Committee on the Review of Papers She has made several presentations to professional groups on issues such as ratemaking for auto, earthquake, and workers compensation insurance.

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BIOGRAPHY

CHARLES C. EMMA

Mr Emma is a Principal and Consultant with Pinnacle Actuarial Resources, Inc. in its Chicago office He holds a Bachelor of Science degree in Mathematics from the University of Notre Dame, and has twenty three years of actuarial experience.

Mr Emma is a Fellow of the Casualty Actuarial Society and a member of the American Academy of Actuaries. In 2006 he was elected to the Board of Directors of the American Academy of Actuaries.

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Mr Emma is a frequent speaker on Enterprise Risk Management and loss reserving. He has participated on various professional society research and communication committees. His most recent published article is the prize-winning "Linking DFA to Corporate Strategy," in *CAS Forum*, 2000.

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Shawna S. Ackerman, FCAS, MAAA LeRoy A. Boison, FCAS, MAAA, LLC Erich A. Brandt, FCAS, MAAA Christopher S. Carlson, FCAS, MAAA Kiera Doster, FCAS, MAAA Charles C. Emma, FCAS, MAAA Joseph A. Herbers, ACAS, MAAA Steven G. Lehmann, FCAS, FSA, FCIA, MAAA Richard A. Lino, FCAS, MAAA Laura A. Maxwell, FCAS, MAAA Roosevelt C. Mosley, FCAS, MAAA Paul A. Vendetti, FCAS, MAAA John E. Wade, ACAS, MAAA Robert A. Walling III, FCAS, MAAA Gary C. Wang, FCAS, MAAA

March 20, 2006

Ms. Donna Conway Division of Waste Management 14 Reilly Road Frankfort, KY 40601

Dear Ms. Conway:

Enclosed is our final report on the actuarial study of the Kentucky Petroleum Storage Tank Environmental Assurance Fund (PSTEAF) as of June 30, 2005. The report has been prepared for PSTEAF.

If you have any questions, or require anything further please call Chuck at (630)262-0954 or John at (309)665-5010.

Sincerely,

Charles C. Emma, FCAS, MAAA Principal & Consulting Actuary

John E Wade, ACAS, MAAA Consulting Actuary

Actuarial Report

on the

State of Kentucky

Petroleum Storage Tank Environmental Assurance Fund

Actuarial Study
As of June 30, 2005

March, 2006

Pinnacle Actuarial Resources, Inc 319 ½ W. State St., Suite A Geneva, IL 60134

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EXHIBITS

Kentucky Petroleum Storage Tank Environmental Assurance Fund

Actuarial Study as of June 30, 2005

I. BACKGROUND

Purpose & Scope

Pinnacle Actuarial Resources, Inc. (Pinnacle) was retained by the Kentucky Division of Waste Management (DWM) to conduct an actuarial study of the Petroleum Storage Tank Environmental Assurance Fund (PSTEAF) as of June 30. 2005. We developed estimates of loss reserve and made projections of the fund's future financial positions and cashflows in order to evaluate the fund's financial position

Distribution & Use

This study has been conducted at the request of DWM officials. Further distribution or use is expressly prohibited without the prior written consent of Pinnacle. Any reference to Pinnacle in relation to this report in any reports, accounts, or other published documents by DWM is not authorized without our prior written consent. The nature of the material contained in the report is such that this limitation on distribution should apply to requests under any Freedom of Information Act

The exhibits attached in support of our findings are an integral part of this report. These sections have been prepared so that our actuarial assumptions and judgments are documented. Judgments about the conclusions drawn in this report should be made only after considering the report in its entirety. We remain available to answer any questions that may arise regarding this report. We assume that the user of this report will seek such explanation on any matter in question.

Our conclusions are predicated on a number of assumptions as to future conditions and events. Those assumptions, which are documented in subsequent sections of this report, must be understood in order to place our conclusions in their appropriate context. In addition, our work is subject to inherent limitations, which are also discussed in this report.

Reliances & Limitations

We have prepared this report in conformity with its intended use by persons technically competent in the areas addressed and for the stated purposes only. Judgments as to conclusions, methods, and data

contained in this report should be made only after studying the report in its entirety. Furthermore, we are available to explain any matter presented herein.

Throughout our analysis we have without audit or verification, relied on historical data and qualitative information provided by DWM. We have reviewed this data for consistency and believe it to be reasonable and accurate. However, we have made no attempt to audit or verify this information. The accuracy of our results is dependent upon the accuracy and completeness of this underlying data. Therefore, any material discrepancies discovered in this data by DWM or its auditor should be reported to us and this report amended accordingly, if warranted.

There is a limitation upon the accuracy of these estimates and projections in that there is an inherent uncertainty in any estimate of loss reserves and financial projections. This is due to the fact that the ultimate liability for claims is subject to the outcome of events yet to occur, e.g., the likelihood of claimants bringing suit, the size of awards, changes in the standards of liability, and the attitudes of claimants toward settlement of their claims. Also our financial projections are subject to a very high degree of uncertainty because they require prediction of future economic, legal, and judicial conditions which are not knowable. In our judgment, we have employed techniques and assumptions that are appropriate, and the conclusions presented herein are reasonable, given the information currently available. However, it should be recognized that future financial results will likely deviate, perhaps materially, from our estimates

II PSTEAF BACKGROUND

PSTEAF Facts

The Kentucky Petroleum Storage Tank Environmental Assurance Fund (PSTEAF) was first established in 1990. in response to federal legislation requiring owners and operators of underground storage tanks (UST's) to have financial resources available to pay for cleanup of spills and/or leaks from their tanks. Before PSTEAF's existence, cleanup costs were not covered by the State. Then, all costs were paid by the property owner or by private insurers.

PSTEAF provides coverage for UST's that are in compliance with Kentucky's UST technical regulations More than 12,000 tanks are eligible to participate in the PSTEAF. Coverage is provided for the costs of cleaning up a leak or spill, as well as third-party property damage or bodily injury resulting from spills or leaks. A deductible applies to each eligible facility based on the number of regulated tanks.

In 1998, the Kentucky EPA mandated upgrades to underground tanks. In future years these upgraded tanks will dominate the insured population of the Fund. As the result, future characteristics of claim frequency and severity are expected to improve significantly

PSTEAF covers only tanks in the State of Kentucky and has no exposure in other states. PSTEAF is financed primarily with a fee assessed on petroleum imported into Kentucky. The Fund also realizes income from interest on invested assets.

PSTEAF's fiscal year runs from July 1 to June 30. Therefore, for example, fiscal year ending 2005 refers to the twelve month period from July 1, 2004 through June 30, 2005

Coverage

PSTEAF covers eligible facilities with retroactive dates based on entry to the program. However, claims occurring prior to retroactive date can be honored by PSTEAF so long as there is no intentional withholding of information. Cleanup costs, liability costs, and minor defense costs are included. Tank removal, testing of tanks and piping, first-party property, and business interruption are all excluded costs (Note that tank removal costs are covered for eligible SOTRA applicants.) An eligible applicant incurs all costs initially and is reimbursed by PSTEAF in accordance with applicable regulations.

Experience to date suggests that the majority of covered leaks relate to fittings and joints on pipes It is less frequent that situated tanks themselves experience punctures or holes in their walls. A minor and

unintended expansion of PSTEAF's coverage has evolved through certain legal decisions which had mandated coverage for leaks at a gas pump, even where the tank is hidden and not directly involved.

Prior Actuarial Reports

The most recent actuarial report was conducted as of June 30, 2003 by Ernst & Young LLP.

Extended Reporting Provisions (ERP's)

This is a fairly new provision which to-date is not often purchased. In such cases, prior owners may have remaining liabilities for late reported claims. We believe that ERP liabilities are an immaterial reserving concern for PSTEAF as of June 30, 2005.

Runoff Issues

Based on conversations with DWM, the fund will require an ongoing expense allocation in the event of runoff / sunset. This concept, known as an Unallocated Loss Adjustment Expenses (ULAE) reserve is consistent with insurance accounting requirements. A provision for such expenses is imbedded in our estimate of general operating expenses. Our financial projections also include consideration for ULAE during runoff

III. LOSS RESERVE ANALYSIS

Results

Loss reserve estimates for the PSTEAF are shown in the table below. The summarization of these estimates can be seen in Exhibit 1.

PSTEAF
Estimated Loss Reserves as of June 30, 2005
(\$ 000's)

| Loss Reserve Type | Recorded Reserves | Pinnacle Selected Estimate | Redundancy/ (Deficiency) |
|-------------------|----------------------|----------------------------------|-----------------------------|
| Known Claims | 20,324 | 119,765 | (99,441) |
| IBNR | | 192,486 | (192,486) |
| Expenses | 472 | 46,838 | (46,365) |
| Total | 20,796 | 359,089 | (338,293) |

Based on the table we believe that PSTEAF's recorded reserves are understated by approximately \$338 Million as of December 31, 2005.

Variability

Our estimate is characterized by a high degree of uncertainty in estimating loss reserves as discussed previously. Specifically, the variability affecting PSTEAF's reserves is chiefly driven by the future legislation in Kentucky and regulatory standards affecting cleanup costs. The probability that actual future loss and loss expense payments may develop to levels well outside our range must be considered material. The risk of reserve variability is high for PSTEAF compared to a property/casualty insurer. This is due to the following facts:

- o Because of the unique risk characteristics of PSTEAF, a very limited amount of relevant external data upon which to use as benchmark or a-priori assumptions is not readily available
- o PSTEAF's loss reserves consist of approximately 1,400 open claims and a smaller number of expected unreported claims. PSTEAF purchases no reinsurance. PSTEAF is thereby exposed to the full extent of liability of claim costs. There is a high potential for unusually large costs on a small number of claims to create even greater future reserve inadequacies.

Data

We used data provided to us by DWM officials. Most of the data was provided to us in computer file formats and we manipulated the data to organize into an acceptable format for analysis. To the extent

necessary we also utilized historical data contained in the 2003 actuarial study by Ernst & Young. This data was separated by three coverage groups as follows:

- 1 Financial Responsibility Account (FRA)
- 2 Petroleum Storage Tank Account (PSTA)
- 3 Small Owners Tank Removal Account (SOTRA)

Other forms of data used included printed financial and tank demographic data and pro-forma financial projections. These were provided to us directly by DWM.

Pinnacle worked with DWM staff to reconcile historic claim counts and paid amounts at various ages of development to the prior (2003) Actuarial Report by Ernst & Young. An exact reconciliation was not possible because date fields were not consistently completed in the data bases used by DWM. Attempts were made to assign the most accurate release years and payment years to each claim record. In general, Pinnacle's and DWM's interpretation of the data led to a slight shifting of the oldest release years up a few fiscal years and sooner in the payment pattern in comparison to the E&Y triangles. Total claim counts were nearly identical, but total claim payments exceeded the E&Y report by approximately five percent. Since further verification was not possible, we relied on the most recent information provided by DWM in developing the historic diagonals of our claims triangles.

The material data items we relied upon to conduct our study can be listed as follows:

- Historic Loss Development Triangles by coverage group through June 30, 2005
 - Report Year Paid Losses
 - o Release Year Paid Losses
 - o Report Year Incurred Claim Counts
 - Release Year Incurred Claim Counts
- PSTEAF Financial Statements including balance sheets, income statements, and cashflows
 - o As of June 30, 2005 (included 2004)
 - o As of June 30, 2003
 - o As of June 30, 2002 (included 2001)
- PSTEAF Tank Demographics for FRA, PSTA, and SOTRA programs
- PSTEAF Biennial Budget for Fiscal Year 2006-2008
- Ernst & Young Actuarial Reports
 - o As of June 30, 2003
 - o As of June 30, 2001

As mentioned earlier, we have relied on this data without audit or verification

Methodology

We employed paid development loss reserving methods in this study; similar to the methods relied upon in past actuarial studies. Methods for estimating ultimate losses and claim counts were applied to paid incurred losses and incurred claim counts by release year and by report year. Each of the methods described below were used on losses inclusive of third-party property damage (PD) and defense cost data coded on individual claim files. Therefore, our loss reserve estimates implicitly include estimates for unpaid PD and defense costs. Reference to the term "loss" should be understood to be inclusive of these defense costs.

Paid Loss Development Method - Report Year data

This method projects losses to ultimate based upon historical changes in the valuation of losses at given points in time, e.g., 12 months, 24 months, etc. In this method, age-to-age factors are calculated. These factors calculate the development of report year losses over time by dividing the losses at one valuation point by the losses at the point immediately prior (for example, dividing losses at 24 months by losses at 12 months). Reasonable age-to-age factors for future development on report years are selected based on the calculated historical factors and other known information that may influence future development. Tail factors are set based on judgment after reviewing the historical patterns. Loss development techniques are most predictive when historical loss reporting and settlement patterns are relatively consistent. When applied to Report Year data, the resulting estimated ultimate loss is for known claims only. It does not include a provision for Incurred But Not Reported (IBNR) claims.

Paid Loss Development Method - Release Year data

This method is the same as the method described above using Report Year data. The body of data is restated on a Fiscal Year Released basis, age-to-age calculations are made, and selections of ultimate development factors lead to projected ultimate loss for the total of known and IBNR claims combined.

Average Expected Loss Method

Because claim counts and paid amounts for the most recent Release Year and Report Year have decreased significantly, for the 2005 year we relied on the five previously developed Release Years and Report Years for our 2005 estimates. An average of the prior five years was selected as the best estimate of the ultimate loss rather than the paid development method. It is expected that 2005 actual results may not be as diminished as recorded in DWM's data bases. Timing of reports and setting of obligations is heavily influenced by the amount of monies available for remediation.

Ultimate Loss and Reserve Selections

Using the results of the above methods a final loss selection was made by report year and by release year for each coverage group. These selections were made based on our professional judgment noting the relative strengths and weaknesses of the methods for each year and group. From these selected ultimate losses, paid losses as of June 30, 2005 were subtracted and reserve estimates were calculated. (Exhibits 6 and 7)

Developments Rates in Fiscal 2005

Through Fiscal 2005, the Fund's claims experience shows a material reduction in the number of claims reported and the dollars of losses paid. Upon discussion with the Division of Waste Management, we were made aware that in the Fall of 2004 a moratorium was put on all directive letters (i.e., orders for contractors to proceed with site work). This moratorium is the result of a material reduction in resources available to the PSTEAF due to the diversion of PSTEAF funding.

This has reduced the rate of claim payments significantly through the end of Fiscal 2005. It has also reduced the number of claims reported significantly. Based on these discussions our analysis assumes this as a slow-down in the emergence of this loss data rather than a sign of potentially lower ultimate losses of claim counts.

IV. FINANCIAL PROJECTIONS

In order to evaluate the future financial position of the PSTEAF we developed projections of key items belonging to its financial statements, including balance sheets, income statements, and cashflows. We used prior financial statements combined with certain assumptions to drive projections of the financial position of the PSTEAF. It is important to note that our financial projections ignore any possible financing costs the fund may incur due to its material deficit position. Instead our approach assumes that the fund deficit can be absorbed directly by future net income.

General Conclusions

Our financial projections for the next 10 years are included on Exhibit 2. Sheets 1 and 2. They support the following chief conclusions:

- Our loss reserve estimates indicate a PSTEAF fund deficiency of approximately \$359 Million as
 of June 30, 2005.
- During the four calendar years from July 1, 2005 through June 30, 2009, we project that PSTEAF will experience an increase of \$25 Million in its unfunded claims and expense liability. This deficit will increase to \$33 Million by 2014 if a \$30 Million cap on payments and expenses is maintained. See Exhibit 2, Sheet 2
- The fund will experience significant negative cash flow during the next three years, resulting in negative net balances through 2008. This assumes that \$124 Million dollars is transferred from the fund to the General Fund over the next 3 years, and no further transfers are made. See Exhibit 2, Sheet 1.
- Because our reserves indicate that the fund liability is greater than recorded, PSTEAF will not be
 able to meet its obligations on future claims without some additional funding

Limitations

Any model of an insurance fund's financial risk can not contemplate all the risk factors facing a company. There are many factors, beyond the three we used, which can materially affect its financial condition. These include but are not limited to operational risk factors, market risk factors, major economic, judicial, or legislative changes. Because of these limitations our analysis of the projections of the fund inherently understates the level of risk, and thereby the required capital, particularly relating to potential extreme events and conditions. Therefore, our projections of the future financial position for the fund should be viewed only in the context of the assumption which have been contemplated.

Methodology

In developing a framework for projecting financial positions of PSTEAF, we relied upon generally accepted actuarial techniques and were guided by the relevant statement of principles, *The Statement of Principles Regarding Property and Casualty Loss Reserves* and *The Statement of Principles Regarding Property and Casualty Valuations*, adopted by the Casualty Actuarial Society September 1989. We specifically relied on a common method described in two separate articles:

- Actuarial Valuation of Property/Casualty Insurance Companies, Proceedings of the Casualty Actuarial Society – Robert W Sturgis, 1981
- Investigation of Methods, Assumptions, and Risk Modeling for the Valuation of Property/Casualty Insurance Companies; Casualty Actuarial Society Discussion Paper Program – Robert Miccolis, 1987

In general these methods rely on projecting future income and cashflow data

Assumptions

In the table below we list the critical variables and underlying assumptions affecting our actuarial valuation

| Variable | Assumption | | |
|-------------------------|---|--|--|
| Number of Tanks | Constant for FRA, Declined to zero for PSTA and SOTRA | | |
| Revenues | Based on anticipated fuel receipts | | |
| Paid Losses | Based on incurred projections and consistent with PSTEAF's historical paid loss patterns and external indications | | |
| Operating Expense Ratio | 15% of unpaid losses | | |
| Investment Income | 3.5% annual return on average annual assets | | |
| Federal Income Tax | \$0 | | |

Our assumption of future loss cost inflation of zero percent was based on the belief that future increases will be offset by improved regulation and tanks, and increased efficiency in remediation

V. Specific Responses to Items in Scope of Work

Following are the conclusions for each itemization under Section III B. Detailed Scope of Work. of the original Solicitation.

- L. Actuarial valuation of total liability of known claims as of June 30, 2005 \$119,800,000 (Exhibit 1)
- 2. Actuarial valuation of IBNR (or "tail") claims as of June 30, 2005 \$192,500,000 (Exhibit 1)
- 3. Actuarial estimate of total claims liabilities as of June 30, 2005 \$312,300,000 (Exhibit 1)
- 4. Estimate of claims adjustment liability as of June 30, 2005 \$46,800,000 (Exhibit 1)
- 5. Estimate of current portion (due within one year) of claims liability and claims adjustment liability as of June 30, 2005
 \$41,400,000 (Exhibit 1)
- 6. Determination of needed funding for all reported tanks and expected growth in tank population
 While the PSTA and SOTRA programs will sunset in 2008, FRA does not have a sunset date. In Exhibit
 1 we have shown that future liabilities for the next 10 years (through 2015), are \$163,500,000. After that, it is anticipated that FRA will contribute approximately \$3,000,000 per year in claim liabilities plus associated operating expenses as long as the FRA remains in existence. See Exhibit 2, Sheet 3.1. Even though SOTRA is scheduled for sunset 7/15/2008 with no additional funding for existing claims, we have developed our estimates assuming a continuation of the payment patterns shown in Exhibit 2, Sheet 4.3. It is anticipated if funding is not extended to already reported claims under SOTRA, then the reporting patterns will speed up and the PSTEAF will be responsible for a similar liability, but a few years earlier.
- 7. Ten year projection of administrative expense and loss (claim) costs
 \$78,200,000 claims (\$60,200,000 at four years) (Exhibit 1)
 \$11,700,000 operating expenses (\$9,000,000 at four years) (Exhibit 1)
 \$123,700,000 transfers to the General Fund (\$123,700,000 at four years) (Exhibit 1)

8. Assessment of the 1990 environmental assurance fee mechanism

The current assessment fee is 1.4 cents per gallon of petroleum products received in the state of Kentucky. As witnessed by the recent transfers from the PSTEAF to the General Fund, this mechanism is more than adequate to cover the costs of the fund, provided the fund is not exhausted by these transfers. The assurance fee generates approximately \$45.000.000 annually in revenues and is generally growing, while claims and operating expenses, exclusive of transfer fees is about \$30,000,000 to \$40.000,000 per year and declining. Coupled with a limitation on obligations and expenses of about \$30,000,000 per year, the assurance fee should always be able to meet the needs of the fund.

9. Assessment of deductibles and limits

There are three mandatory deductible levels under the FRA and PSTA programs: \$500, \$2,500, and \$12,500. The deductible varies depending on the number of eligible tanks. Exhibit 8, Sheet 1 shows the average loss by program by deductible. There is no clear pattern of variance in the size of loss depending on deductible.

Because of the relatively small magnitude of the size of the deductibles, they probably don't serve as a large incentive for claim consciousness on the part of the tank owners. Increasing or decreasing the size of the deductible would not likely impact the number of future claims. On the other hand, any increase in the size of the deductible will have a measurable impact on paid amounts. For example, a mandatory deductible of \$20,000 could potentially have reduced past payments by \$25,000,000 to \$50,000,000 However, no recommendation is being made to change the deductible at this time since the revenues of the fund are more than sufficient to meet claim obligations provided that future transfers to the General Fund are reasonable

As can be seen in Exhibit 8, Sheet 2, the majority of claims are under \$200,000 While this is based on immature data, it appears that very few claims would have been curtailed even if the limit was lowered to \$500,000. No change in limit is recommended at this time.

10. Correlation of clean-up costs based on tank size, site, and age

The data necessary to conduct such an analysis was not available DWM representatives have been made aware of this limitation in the available data.

11. Assessment of clean-up standards and remediation costs in light of current operating procedures and regulations

In order to evaluate this we reviewed two important statistics relative to the effectiveness of claims handling in comparison to other petroleum storage tank funds for which we have conducted similar

studies The comparison group we relied on was from two similar funds, one State-owned and one private.

In specific we reviewed two relevant statistics:

- 1. Severity (average size) of claims
- 2. Average time to settlement of claims

Statistic one compares very similarly to both of the other funds. The average claim size for all three is approximately \$80,000. Statistic two runs slightly longer for PSTEAF. The Fund's average time to settlement is approximately 7.5 years while the other two ranged from 5.5 to 6.5 years

Based on a brief comparison of historical paid loss development data, we believe that this difference may be the function of periodic shortfalls in PSTEAF resources Occasionally over the fund's history we find protractions in the length of settlement

In broader insurance data the second observation often leads to higher claim severities as inflation can adversely affect claims remaining open for longer periods of time. As indicated earlier, however, we see no evidence of higher severities in the actual PSTEAF claim history. Therefore we conclude that these periodic resource shortfalls do not seem to be posing additional cost for the Fund.

12. Assessment of revisions to current business practices necessary to improve the long-term viability of the Fund

There are two revisions to current business practices in regards to operating the Fund that should be contemplated. The first is to reduce the size of transfers to the General Fund. If nothing else is transferred beyond that which is planned during the 2006-2008 fiscal yeas, the Fund can return to a positive cash balance around 2009.

The second revision will be to reduce claims staff (and attendant salaries) gradually with the reduced need for staff with the sunset of PSTA and SOTRA. While this will not have a major impact on outstanding liabilities, dollar savings will be significant, perhaps as much as \$1,000,000 per year.

13. Assessment of the adequacy of cash reserves required to fund outstanding and IBNR claims

As demonstrated in Exhibit 2. Sheet 1 planned transfers to the General Fund over the next 3 years will cause cash reserves to become negative over the next 3 years. Cash reserves will not be adequate to fund outstanding and IBNR claims over the next 3 years.

14. Assessment of SOTRA and its impact on FRA and PSTA

As SOTRA winds down, so does its positive impact on FRA and PSTA. However, the past benefits will be felt far into the future as practically all tanks will be of the protected category in a few years and the claims pattern for FRA should stabilize. PSTA claims will also disappear with its sunset and the fact that unprotected tanks are quickly diminishing. See Exhibit 4.

15. Determination of average reserve amount for each potential obligation

The following percentages should be applied to each potential obligation amount to establish a reserve for the known claim:

100% - FRA

120% - PSTA

80% - SOTRA

See Exhibit 8. Sheet 3 for derivation of these percentages

16. Assessment of the impact of revenue transfers to the General Fund

Past revenue transfers to the General Fund have reduced the Fund's ability to earn investment income, and most recently, the ability to obligate and pay claims without some additional funding provided. The current transfer of \$124,000,000 over the next three years will keep the Fund in a negative cash position and will not allow them to obligate or pay on future or existing claims without receiving additional funding. In fact, the transfer to the General Fund in 2006 is slightly larger than anticipated revenues plus previous balance. Additional funding is planned through the issuance of a \$25,000,000 bond in 2006, and another \$25,000,000 bond in 2007. Even though the retirement of these and past bonds are satisfied from the General Fund, the PSTEAF will run a negative net balance of two to three million dollars over the next three years before returning to a positive balance.

17. Impacts of the sunset dates (PSTA and SOTRA) on the solvency of the Fund

PSTA and SOTRA account for the vast majority of claims paid by the fund. While it will take several years for PSTA to wind down after the sunset, the claims payments will be far less than the assurance fees received. As PSTA does wind down, the Fund could return to a solvent position with the need for special bond issues. In fact, the anticipated Fund claims after the wind down are in the neighborhood of \$3,000,000, while receipts will be closer to \$45,000,000. The key driver will be to what extent transfers to the General Fund continue.

SOTRA payments are nominal and their discontinuance will have a positive, albeit minor, impact on the Fund Solvency.

Since the coverage provided under PSTA and SOTRA will not continue after the respective sunsets, it is not anticipated that FRA will pick up any claims of this nature, without a change to the program as it exists today. Such a change is not contemplated

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Exhibit Index As of 06/30/05

| Exhibit <u>Number</u> | Sheet <u>Number</u> | Exhibit <u>Description</u> |
|--------------------------|------------------------|--|
| 1 | | Estimate of Total Liabilities Through Fiscal Year 2015 |
| 2 | 1 | Cash Flow by Fiscal Year |
| 2 | 2 | Payment Summary by Fiscal Year Paid Through 2015 |
| 2 2 2 | 3 1 3 2 3 3 | FRA Payment by Fiscal Year PSTA Payment by Fiscal Year SOTRA Payment by Fiscal Year |
| 2 2 2 | 4 1 4 2 4 3 | FRA Payment Pattern By Fiscal Year of Release PSTA Payment Pattern By Fiscal Year of Release SOTRA Payment Pattern By Fiscal Year of Release |
| 2 | 5 | Ultimate Paid by Fiscal Year of Release |
| 2 | 6 | Fuel Receipts by Fiscal Year |
| 3 | | General Expense Ratio |
| 4 | | Estimated Future Claims by Fiscal Year of Release |
| 5 5 | 1.1 1.2 | FRA IBNR Claims PSTA IBNR Claims |
| 5 5 | 2 1 2 2 | FRA Claim Reporting Pattern by Fiscal Year of Release PSTA Claim Reporting Pattern by Fiscal Year of Release |
| 6 6 | 1 1 1 2 | FRA Ultimate Paid by Fiscal Year of Release PSTA Ultimate Paid by Fiscal Year of Release |
| 6 6 | 2 1 2 2 | FRA Payment Pattern by Fiscal Year of Release PSTA Payment Pattern by Fiscal Year of Release |
| 7 7 7 | 1 1 1 2 1 3 | FRA Ultimate Paid by Fiscal Year Reported PSTA Ultimate Paid by Fiscal Year Reported SOTRA Ultimate Paid by Fiscal Year Application Received |
| 7 7 7 | 2 1 2 2 2 3 | FRA Payment Pattern by Fiscal Year Reported PSTA Payment Pattern by Fiscal Year Reported SOTRA Payment Pattern by Fiscal Year Reported |
| 7 | 3 | Reported Claim Comparison |
| 8 | 1 | Average Claim by Deductible Option |
| 8 | 2 | Average Claim by Size of Loss |
| 8 | 3 | Average Claim Related to Average Obligation |

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Estimate of Total Liabilities Through Fiscal Year 2015 As of 06/30/05

| | | <u>Current</u> | Noncurrent | <u>Total</u> | |
|------|--|---|--|---|---|
| (1) | Reported Claims FRA PSTA SOTRA Total | | | 23 928 185 93 506 256 2 330 256 119 764 697 | |
| (2) | IBNR Claims (incurred but not Reported) FRA PSTA SOTRA Total | | | 69 073 618 123 412 672 0 192 486 290 | |
| (3) | Total Outstanding Claims FRA PSTA SOTRA | 14 066 688 20 743 660 1,196,920 | 78 935 115 196 175 268 1,133,335 | 93 001 803 216 918 929 2,330,256 | |
| | Total | 36,007,269 | 276,243,719 | 312,250,987 | |
| (4) | Outstanding Claims General Operating Expenses | 5 401 090 | 41 436 558 | 46 837 648 | |
| (5) | Total Outstanding Claims Liability as of 06/30/05 | 41 408 359 | 317 680 276 | 359 088 635 | |
| (6) | Future Released Claims FRA PSTA SOTRA Total | Current 10 Year 30 446 101 044 286 467 417 957 | Noncurrent 10 Year 30 117 448 42 134 295 5 535 234 77 786 977 | Total 10 Year 30 147 894 42 235 339 5 821 701 78 204 935 | Total 4 Year 12 164 792 42 235 339 5 821 701 60 221 832 |
| (7) | Future Released Claims General Operating Expenses | 62 694 | 11 668 047 | 11 730 740 | 9 033 275 |
| (8) | Future Transfers to General Fund | 64 097 900 | 59 561 400 | 123 659 300 | 123 659 300 |
| (9) | Future Bond Revenues | 25,000,000 | 25,000,000 | 50,000,000 | 50,000,000 |
| (10) | Total Future Liabilities | 39,578,551 | 124,016,424 | 163,594,975 | 142,914,407 |
| (11) | Total Future Payments | 80,986,910 | 441,696,700 | 522,683,610 | |

Notes:

- (1) Exhibit 7, Sheet 1, Column (4), for each program
- (2) Exhibit 6, Sheet 1, Column (4) (1), for each program Note: SOTRA has no IBNR
- (3) Current from Exhibit 2, Sheet 3, Current Year Row, for each program
- (3) Noncurrent = Total (3) Current (3), for each program
- (3) Total = (1) + (2), for each program
- (4) = (3) times selected expense ratio in Exhibit 3
- (5) = (3) + (4)
- (6) Current from Exhibit 2, Sheet 3, Current Release Year paid in Current Year, for each program.
- (6) Noncurrent = Total (6) Current (6)
- (6) Total = Exhibit 2, Sheet 3, Total (3)
- (6) 4 year estimates derived as above, but using 4 year totals from Exhibit 2, Sheet 3
- (7) = (6) times selected expense ratio in Exhibit 3
- (8) Exhibit 2, Sheet 1, Column (4)
- (9) Exhibit 2, Sheet 1, Column (5) While this is not a liability, it is an off
- (10) = (6) + (7) + (8) (9)
- (11) = (5) + (10)

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Petroleum Storage Tank Environmental Assurance Fund Cash Flow by Fiscal Year Commonwealth of Kentucky As of 06/30/05

| (8) (9) Ending Future Balance Payments | 341,900,512 | -2,352,147 283,666,61 | -2,821,730 254,388,912 | | 32,501,567 194,388,91 | | 72,303,383 134,388,912 | | _ | _ |
|--|--------------------------|-----------------------|------------------------|------------|-----------------------|------------|------------------------|------------|-------------|-------------|
| (7) Interest Income | 274,952 | -76,826 | -88,986 | 197,441 | 804,967 | 1,450,263 | 2,134,815 | 2,860,164 | 3,627,907 | 4,564,603 |
| (6) Net <u>Balance</u> | . 2 425 R01 | -2,275,322 | -2,732,744 | 14,104,085 | 31,696,600 | 50,370,591 | 70,168,568 | 91,134,574 | 113,314,242 | 143,892,286 |
| (5) Bond <u>Revenue</u> | 25,000,000 | 25,000,000 | | | | | | | | |
| (4) Transfers <u>Out</u> | 64 097 900 | 41,997,300 | 17,564,100 | | | | | | | |
| (3) Projected <u>Payments</u> | 29 069 400 | 29,164,500 | 29,277,700 | 30,000,000 | 30,000,000 | 30,000,000 | 30,000,000 | 30,000,000 | 30,000,000 | 22,862,562 |
| (2) Fuel <u>Receipts</u> | 45,094,786 45,545,734 | 46,001,191 | 46,461,203 | 46,925,815 | 47,395,073 | 47,869,024 | 48,347,714 | 48,831,191 | 49,319,503 | 49,812,698 |
| (1) Beginning <u>Balance</u> | 20 195 875 | -2,114,713 | -2,352,147 | -2,821,730 | 14,301,527 | 32,501,567 | 51,820,854 | 72,303,383 | 93,994,739 | 116,942,149 |
| Fiscal <u>Year</u> | 2005 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |

Notes:
(1) 2006 Beginning Balance Provided by Fund (2005 OPSTEAF Year End Report;
(2) Exhibit 2, Sheet 6
(3) Exhibit 2, Sheet 2, minimum of column Columns (4) and (5)
(4) Transfer to General Fund per State of Kentucky Biennial Budget, 2006-2008
(5) Bond issued on PSTEAF's behalf, to be repaid by the General Func
(6) = (1) + (2) - (3) - (4) + (5)
(7) = 3.5% x average [Beginning Balance, Column (1) and Net Balance, Column (6))
(8) = (6) + (7)
(9) = Exhibit 2, Sheet 2, Column (10)

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Payment Summary by Fiscal Year Paid Through 2015 As of 06/30/05

| | (1a) | (1b) | (1c) | (2) | (3) | (4) |
|-------------|--------------|---------------|---------------|---------------|-------------|-------------|
| Fiscal | FRA | PSTA | SOTRA | Total | Funded | Total |
| Year | Paid | Paid | Paid | Paid | Operating | Paid |
| <u>Paid</u> | Claims | <u>Claims</u> | <u>Claims</u> | <u>Claims</u> | Expense | Expense |
| | | | | | | |
| 2006 | 14 097 134 | 20 844 705 | 1 483 387 | 36 425 226 | 3 715 700 | 40 140 926 |
| 2007 | 10 315 004 | 19.033 898 | 1 663 388 | 31 012 290 | 3 817 600 | 34 829 890 |
| 2008 | 15 962 884 | 20 807 152 | 1 812 484 | 38 582 521 | 3.930 400 | 42 512 921 |
| 2009 | 9 426 837 | 22 641 149 | 1 824 901 | 33 892 886 | 2 358 240 | 36 251 126 |
| 2010 | 8 566 645 | 22 054 651 | 713 044 | 31 334 339 | 2 405 405 | 33 739 744 |
| 2011 | 7 560 056 | 23 218 911 | 401 347 | 31 180 313 | 2 453 513 | 33 633 826 |
| 2012 | 9 316 403 | 20 758 165 | 172 805 | 30 247 373 | 2 502,583 | 32 749 956 |
| 2013 | 6 540 529 | 21 424 552 | 60 479 | 28 025 560 | 2 552 635 | 30 578 194 |
| 2014 | 7 086 565 | 24 890 995 | 20 121 | 31 997 681 | 2.603 688 | 34 601 368 |
| 2015 | 5.738 104 | 14 468.696 | 0 | 20 206 800 | 2 655 761 | 22 862 562 |
| Total | 94,610,160 | 210,142,872 | 8,151,956 | 312,904,988 | 28,995,524 | 341,900,512 |
| | (5) | (6) | (7) | (8) | (9) | (10) |
| Fiscal | | Actual | Cumulated | Claim | Operating | |
| Year | Restricted | Paid | Unpaid | Payments | Expense | Total |
| <u>Paid</u> | <u>Funds</u> | Expense | Liability | Outstanding | Outstanding | Outstanding |
| | | | | 312 904 988 | 28 995 524 | 341 900 512 |
| 2006 | 29,069,400 | 29 069 400 | 0 | 287 551 288 | 25 279 824 | 312 831 112 |
| 2007 | 29 164 500 | 29 164 500 | 5 665 390 | 262 204 388 | 21,462 224 | 283,666 612 |
| 2008 | 29 277 700 | 29,277,700 | 18 900 611 | 236 857 088 | 17.531.824 | 254 388 912 |
| 2009 | 30 000 000 | 30 000 000 | 25 151 737 | 209 215 328 | 15,173 584 | 224 388.912 |
| 2010 | 30 000 000 | 30,000 000 | 28 891 481 | 181 620 733 | 12 768 180 | 194 388 912 |
| 2011 | 30 000 000 | 30 000 000 | 32 525 307 | 154.074 246 | 10,314 667 | 164 388 912 |
| 2012 | 30 000,000 | 30 000 000 | 35.275.262 | 126 576 829 | 7 812,084 | 134 388 912 |
| 2013 | 30 000 000 | 30 000 000 | 35,853 457 | 99 129 464 | 5,259 449 | 104 388 912 |
| 2014 | 30,000,000 | 30,000 000 | 40 454 825 | 71 733 151 | 2 655,761 | 74 388 912 |
| 2015 | 30 000,000 | 30 000 000 | 33,317,387 | 44 388 912 | 0 | 44,388,912 |
| Total | | 297,511,600 | | | | |

Notes:

- (1) Exhibit 2, Sheet 3, for each program
 - Note that (SOTRA), capped at \$3,000,000 for any Fiscal Year per 401 KAR 42:330 SOTRA shuts down 07/15/08. It has been indicated that all payments cease at that time if this is truly the case, then it should be expected that future payments will be shifted forward making for larger liabilities in 2008 and 2009
- (2) = (1a) + (1b) + (1c)
- (3) Exhibit 3
- (4) = (2) + (3)
- (5) From State of Kentucky Biennial Budget, 2006-2008. Subsequent amounts are for illustrative purposes only
- (6) = Minimum [(4) + prior (7), (5)]
- (7) = Maximum [prior (7) + (4) (5), 0]
- (8) = Previous (8) (6) + (3). Starting value equals Column (2) Total
- (9) = Previous (9) (3) Starting value equals Column (3) Total
- (10) = (8) + (9)

FRA Only

| Total | 8 407 124 8 407 124 13 540 365 15 540 365 16 583 307 16 165 307 16 10 19, 196 18 427, 43 19 46, 724 2 441 928 2 441 928 2 445 908 1 108 304 2 907 184 2 997 184 | 123,149,697 |
|-----------------|--|-----------------------|
| Subs | 1497.323 445.907 1,153.759 1,299.002 1,507.336 1,592.781 1,655.302 1,825.070 1,825.070 1,825.070 1,825.070 | 20,457,860 |
| 2018 | 594.961 137.485 35.962 88.198 10.9971 90.934 137.9312 148.511 148.511 148.512 | 2,087,585 |
| 2017 | 1. [5], 892 54, 554 125, 646 110, 564 110, 564 113, 593 113, 593 113, 593 113, 593 113, 593 113, 593 113, 593 114, 583 115, 583 117, 593 118, 583 | 2,821,023 |
| 2016 | 1242,809 105,776 51,515 134,838 13,483 10,785 10,785 10,916 10,916 10,93 11,93 | 3,173,070 |
| 2015 | 3,744,689 114,128 99,737 53,596 166,579 44,126 87,149 81,149 88,631 139,386 148,611 148,611 148,611 229,637 226,282 286,203 | 5,738,104 |
| 2014 | 4,839,951 34,868 107,486 103,766 66,230 161,779 36,556 77,534 86,462 197,022 198,610 230,540 220,540 221,237 226,222 221,703 | 7,086,565 |
| 2013 | 3.852.027 444.444 374.444 374.443 11.966 11.965 114.393 12.963 82.663 87.566 140.521 1161.921 1161.921 230.540 230.540 230.703 | 6,540,529 |
| 2012 | 6,481,141 382,807 419,069 138,3,33 138,3,401 118,650 141,384 151,384 151,384 151,384 151,385 151,387 1 | 9,316,403 |
| 2011 | 4,144,097 382,315 382,315 342,397 445,997 103,389 47,146 126,418 145,176 153,562 153,562 221,552 221,552 221,552 | 7,560,056 |
| 2010 | 4,844,787 380,545 386,440 386,040 386,047 111,549 91,278 91,278 50,532 128,018 152,331 146,815 152,331 224,888 222,332 228,338 | 3,566,645 |
| 2009 | 5,332,342,44,888,356,888,356,888,356,338,456,338,462,336,462,336,107,98,462,244,145,638,339,339,339,339,339,339,339,339,339,3 | 9,426,837 |
| 2008 | 11, 480, 335 489,659 489,659 473,317 273,317 426,924 426,920 434,412 286,735 104,930 98,484 82,441 224,527 226,538 30,121 | 15,962,884 |
| 2007 | 4,968,634 (461,702 461,702 461,314 461,314 461,314 461,314 198,038 198,037 196,238 196,242 222,727 30,261 | 10,315,004 |
| FY Paid 2006 | 8.407,124 846,860 846,864 840,353 540,353 579,253 311,655 171,752 870,653 171,753 870,863 171,753 870,863 86,651 8 | 14,097,134 |
| FY Released | Prior 1991 1992 1993 1994 1995 1995 1996 1996 1996 1996 1996 1996 | Total Current Year |

Note: Exhibit 2, Sheet 4.1 x Exhibit 2, Sheet 5, Column (1) Current Year is the total paid in 2006 on prior years.

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund PSTA Payment by Fiscal Year As of 66:1005

PSTA Only

| Total | 3,679,503 2,155,722 3,342,147 7,639,078 16,500,638 26,000,638 26,000,638 26,000,638 24,729 10,886,739 11,174 6,632,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 14,188,739 | 259,154,268 |
|-----------------|---|--------------------------|
| Subs. | 1 921 467 4 907 440 3.985.20 5.083,719 5.759.271 6.472,014 | 28,109,064 |
| 2018 | 2,036,011 396,568 494,344 655,985 770,882 742,083 564,203 0 | 5,620,745 |
| 2017 | 3,089,941 420,210 420,210 889,161 669,885 743,314 551,344 0 0 0 0 | 6,978,783 |
| 2016 | 3,880,224 63,875 63,875 24,874 24,936 906,316 584,936 57,029 35,029 57,029 0 0 0 0 | 8,302,805 |
| 2015 | 9.512.573 800.834 87.777 448.903 928.430 928.430 928.745 60.1286 60.1286 0 0 | 14,468,696 |
| 2014 | 18,141,744 1,963,287 471,540 477,589 477,589 478,545 778,515 926,091 604,990 604,990 604,990 605,504 605,504 605,504 606,990 606,900 6 | 24,890,995 |
| 2013 | 11,434,933 1.144,56 1.156,004 481,144 464,145 1.34,566 44,196 554,508 564,508 643,314 643,314 643,314 643,314 | 21,424,552 |
| 2012 | 8,734,626 2,360,041 2,704,654 2,076,259 666,179 666,179 354,544 354,643 459,944 612,043 645,204 612,043 645,204 0 | 20,758,165 |
| 2011 | 8.288,847 1,389,728 1,389,617 2,143,985,442 2,143,982 2,818,924 2,143,924 2,143,924 2,143,924 2,143,924 2,143,924 2,143,924 2,143,924 1,726,242 1,726,242 1,726,242 1,726,242 1,726,242 1,726,242 1,726,242 1,726,242 1,726,242 | 23,218,911 |
| 2010 | 4.350.474 1.772.788 1.61.465 2.489.469 4.409.534 2.771.038 6.75.828 5.35.789 3.36.789 3.36.789 3.76.180 1.76.100 1.05.91 1.35.91 0 | 22,054,651 |
| 2009 | 3,836,516 897,888 1,008,508 2,552,464 4,140,574 4,21,574 421,577 4,21,577 4,15,637 1,048,139 1,048,139 | 22,641,149 |
| 2008 | 2.518,783 2.28,886 1,531,971 1,593,971 2,669,8,71 2,669,9,70 11,03,51 716,94 716,94 716,94 716,94 11,03,28 11,0 | 20,807,152 |
| 2007 | 1,786,922 519,646,228 95,033,146,2438 1,993,544 1,971,044 1,771,04 | 19,033,898 |
| FY Paid 2006 | 3,679,509 368,800 308,902 308,902 97,1097 1,824,330 1,242,370 1,242,370 1,25,300 618,531 608,737 1,705,531 1,705,531 1,705,531 | 20,844,705 20,743,660 |
| FY Released | Prior 1991 1992 1993 1994 1996 1996 1998 1998 1998 2000 2000 2000 2000 2000 2000 2000 2 | Total Current Year |

Note: Exhibit 2, Sheet 4.2 x Exhibit 2, Sheet 5, Column (2) Gurent Year is the total paid in 2006 on prior years.

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund SOTRA Payment by Fiscal Year As of 06/30/05

SOTRA Only

| Total | 00 | 11.085 | 42,875 | 151,831 | 326.182 | 712,863 | 906,629 | 1,714,951 | 1,714,951 | 2,570,590 | o | 8,151,956 | |
|------------------------|--------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|------|-----------|--------------|
| 2016 | | | | | | | | | | | 0 | 0 | |
| 2015 | | | | | | | | | | 0 | 0 | 0 | |
| 2014 | | | | | | | | | 0 | 20,121 | 0 | 20,121 | |
| 2013 | | | | | | | | 0 | 13,424 | 47,055 | 0 | 60,479 | |
| 2012 | | | | | | | 0 | 13,424 | 31,393 | 127,989 | 0 | 172,805 | |
| 2011 | | | | | | 0 | 8,520 | 31,393 | 85,387 | 276,047 | 0 | 401,347 | |
| 2010 | | | | | 0 | 16,328 | 19,924 | 85,387 | 184,163 | 407,241 | 0 | 713,044 | |
| 2009 | | | | 0 | 13,928 | 38,185 | 54,193 | 184,163 | 271,688 | 1,262,743 | 0 | 1,824,901 | |
| 2008 | | | 0 | 15,654 | 32,572 | 103,863 | 116,884 | 271,688 | 842,430 | 429,393 | | 1,812,484 | |
| 2007 | | 0 | 12,842 | 36,607 | 88,596 | 224,012 | 172,435 | 842,430 | 286,467 | | | 1,663,388 | |
| FY Paid <u>2006</u> | 0 | 11,085 | 30,033 | 99,570 | 191,085 | 330,475 | 534,672 | 286,467 | | | | 1,483,387 | 1,196,920 |
| FY Reteased | 1998 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | Total | Current Year |

Note: Exhibit 2, Sheet 4.3 x Exhibit 2, Sheet 5, Column (3) Current Year is the total paid in 2006 on prior years.

100.0% 33.3% 15

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Commonwealth of Kentucky Storage Tank Environmental Ass

| | | | | | Pe | roleum Sto FRA Payr | Petroleum Storage Tank Environmental Assurance Fund FRA Payment Pattern By Fiscal Year of Release As of 06/30/05 | ank Environme ttern By Fiscal As of 06/30/05 | ental Assur I Year of R | rance Fund elease | | | | | | | |
|---------------------------|-----------------|--------------|---------------|---------------|---------------|------------------------|--|--|----------------------------|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|
| FRA Only | | | | | | | | | | | | | | | | | |
| Release Lag Years | 0 | - | 84 | က | 4 | r. | 9 | 7 | œ | G. | 10 | £ | 42 | 5 | 4 | 44 | |
| Cumulative Incremental | 1.0% 1.0% | 9.5% 8.6% | 16.9% 7.3% | 24.5% 7.7% | 29.5% 5.0% | 34.5% 5.0% | 39.1% 4.6% | 42.0% 2.8% | 44.8% 2.8% | 47.4% 2.6% | 50.4% 3.0% | 54.0% 3.6% | 57.7% 3.7% | 60.7% 3.0% | 63.6% 2.9% | 66.7% 3.1% | 4 |
| FY Released | FY Paid 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Subs. | | | |
| Prior 1991 1992 | 33.3% 3.1% | 33.3% | %6.88 | | | | | | | | | | | | | | |
| 1993 1994 | 3.0% | 3,0% | 3.1% | 33.3% | 33.3% | | | | | | | | | | | | |
| 1995 | 3.6% | 3.7% | 3.0% | 2.9% | 3.1% | 33.3% | 33 36% | | | | | | | | | | |
| 1997 | 2.6% | 3.0% | 3.6% | 3.7% | 3.0% | 2.9% | 3.1% | 33.3% | | | | | | | | | |
| 1998 | 2.8% | 2.6% | 3.0% | 3.6% | 3.7% | 3.0% | 2.9% | 3,1% | 33.3% | 702 54 | | | | | | | |
| 2000 | 4.6% | 2.8% | 2.8% | 2.6% | 3.0% | 3.6% | 3.7% | 3.0% | 2.9% | 3.1% | 33.3% | | | | | | |
| 2001 | 2.0% | 4.6% | 2.8% | 2.8% | 2.6% | 3.0% | 3.6% | 3.7% | 3.0% | 2.9% | 3.1% | 33.3% | | | | | |
| 2002 | 5.0% | 5.0% | 4.6% | 2.8% | 2.8% | 2.6% | 3.0% | 3.6% | 3.7% | 3.0% | 2.9% | 3.1% | 33.3% | ò | | | |
| 2003 | 7.7% | 5.0% 7.7% | 5.0% 5.0% | 4 5 % 0 % | 2.8% 4.6% | 2.08% | 2.6% | 3.0% | 3.6% | % % % | 3.0% 3.7% | 3.9% | 3.1% 2.9% | 33.3% | | | |
| 2005 | 8.6% | 7.3% | 7.7% | 5.0% | 5.0% | 4.6% | 2.8% | 2.8% | 2,6% | 3.0% | 3.6% | 3.7% | 3.0% | 39.3% | | | |
| 2006 | 1.0% | 8.6% | 7.3% | 7.7% | 2.0% | 2.0% | 4.6% | 2.8% | 2,8% | 2.6% | 3.0% | 3.6% | 3.7% | 42.3% | | | |
| 2007 | | 1.0% | 8.6% | 7.3% | 7.7% | 5.0% | 5.0% | 4.6% | 2.8% | 2.8% | 2.6% | 3.0% | 3.6% | 46.0% | | | |
| 2003 | | | 9 | 1.0% | 8.6% | 7.3% | 7.7% | 5.0% | 5.0% | 4.6% | 2.8% | 2.8% | 2.6% | 52.6% | | | |
| 2010 | | | | | 1.0% | 8.6% | 7.3% | 7.7% | 5.0% | 5.0% | 4.6% | 2.8% | 2.8% | 55.2% | | | |
| 2011 | | | | | | 1.0% | 8,6% | 7.3% | 7.7% | 2.0% | 2.0% | 4.6% | 2.8% | 28.0% | | | |
| 2012 | | | | | | | 1.0% | 8.6% | 7.3% | 7.7% | 2.0% | 2.0% | 4.6% | %6.09 | | | |
| 2013 | | | | | | | | 1.0% | 8.6% | 7.3% | 7.7% | 5.0% | 2.0% | 65.5% | | | |
| 2014 2015 | | | | | | | | | 1.0% | 8.6% | 7.3% | 7.7% | 5.0% | 70.5% | | | |
| 2018 | | | | | | | | | | 0.0.1 | 0,00.4 | 0.5.70 | 1.73 | 70.070 | | | |
| 2017 | | | | | | | | | | | 7.0% | 8.6% 1.0% | %5.7 8.6% | 83.1% | | | |
| 2018 Subsequent | | | | | | | | | | | | | 1.0% | 99.0% | | | |
| Tipobacono. | | | | | | | | | | | | | | 0.001 | | | |

Note: Payment pattern from Exhibit 6, Sheet 2.1

Report Exhibits

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Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund PSTA Payment Pattern By Fiscal Year of Release As of 06/30/05

PSTA Only

| VIIIO A LOU | | | | | | | | | | | | | | | | | |
|---------------------------|------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| Release Lag Years | 0 | ← | 7 | ო | 4 | цэ | 9 | ۲- | 80 | o | 10 | £ | 12 | 5 | 4 | 4 | ź. |
| Cumulative Incremental | 0.7% | 8.2% 7.5% | 17.9% 9.7% | 25.2% 7.3% | 30.7% 5.5% | 35.3% 4.6% | 39.6% 4.3% | 43.1% 3.5% | 47.4% 4.3% | 49.9% 2.5% | 53.9% 4.0% | 59.2% 5.3% | 64.3% 5.2% | 69.4% 5.0% | 72.2% 2.8% | 76.9% 4.8% | 100.0% 23.1% |
| à | FV Paid | | | | | | | | | | | | | | | | |
| Released | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Subs. | | | |
| Prior | 23.1% | | | | | | | | | | | | | | | | |
| 1991 | 4.8% | 23.1% | | | | | | | | | | | | | | | |
| 1992 | 2.8% | 4.8% | 23.1% | | | | | | | | | | | | | | |
| 1993 | 2.0% | 2.8% | 4.8% | 23.1% | | | | | | | | | | | | | |
| 1994 | 5.2% | 2.0% | 2.8% | 4.8% | 23.1% | | | | | | | | | | | | |
| 1995 | 5.3% | 5.2% | 2.0% | 2.8% | 4.8% | 23.1% | | | | | | | | | | | |
| 1996 | 4.0% | 5.3% | 5.2% | 2.0% | 2.8% | 4.8% | 23.1% | | | | | | | | | | |
| 1997 | 2.5% | 4.0% | 5.3% | 5.2% | 2.0% | 2.8% | 4.8% | 23.1% | | | | | | | | | |
| 1998 | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 2.0% | 2.8% | 4.8% | 23.1% | | | | | | | | |
| 1999 | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 5.0% | 2.8% | 4.8% | 23.1% | | | | | | | |
| 2000 | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 5.0% | 2.8% | 4.8% | 23.1% | | | | | | |
| 2001 | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 5.0% | 2.8% | 4.8% | 23.1% | | | | | |
| 2002 | 5.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 5.0% | 2.8% | 4.8% | 23.1% | | | | |
| 2003 | 7.3% | 2.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 2.0% | 2.8% | 4.8% | 23.1% | | | |
| 2004 | 9.7% | 7.3% | 5.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 2.0% | 2.8% | 27.8% | | | |
| 2005 | 7.5% | 9.7% | 7.3% | 5.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 5.0% | 30.6% | | | |
| 2006 | 0.7% | 7.5% | 9.7% | 7.3% | 2.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 5.2% | 35.7% | | | |
| 2007 | | %2.0 | 7.5% | 8.7% | 7.3% | 2.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 5.3% | 40.8% | | | |
| 2008 | | | 0.7% | 7.5% | 9.7% | 7.3% | 2.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 4.0% | 46.1% | | | |
| 2009 | | | | %2.0 | 7.5% | 9.7% | 7.3% | 5.5% | 4.6% | 4.3% | 3.5% | 4.3% | 2.5% | 50.1% | | | |
| 2010 | | | | | 0.7% | 7.5% | 9.7% | 7.3% | 5.5% | 4.6% | 4.3% | 3.5% | 4.3% | 52.6% | | | |
| 2011 | | | | | | %2.0 | 7.5% | 9.7% | 7.3% | 5.5% | 4.6% | 4.3% | 3.5% | 26.9% | | | |
| 2012 | | | | | | | 0.7% | 7.5% | 9.7% | 7.3% | 2.5% | 4.6% | 4.3% | 60.4% | | | |
| 2013 | | | | | | | | 0.7% | 7.5% | 9.7% | 7.3% | 2.5% | 4.6% | 64.7% | | | |
| 2014 | | | | | | | | | 0.7% | 7.5% | 9.7% | 7.3% | 5.5% | 69.3% | | | |
| 2015 | | | | | | | | | | 0.7% | 7.5% | 6.7% | 7.3% | 74.8% | | | |
| 2016 | | | | | | | | | | | %2.0 | 7.5% | 9.7% | 82.1% | | | |
| 2017 | | | | | | | | | | | | %2.0 | 7.5% | 91.8% | | | |
| 2018 | | | | | | | | | | | | | %2.0 | 99.3% | | | |
| manhaenne | | | | | | | | | | | | | | 100.U% | | | |

Note: Payment pattern from Exhibit 6, Sheet 2.2

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund SOTRA Payment Pattern By Fiscal Year of Release As of 06/30/05

Exhibit 2 Sheet 4.3

SOTRA Only

| | | 2016 | | | | | | | | | | | %0.0 |
|-------------------|---------------------------|------------------------|--------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| | | 2015 | | | | | | | | | | 0.0% | %8.0 |
| | | 2014 | | | | | | | | | %0.0 | 0.8% | 1.8% |
| 7 | %0'0 0'0 | 2013 | | | | | | | | %0.0 | %8.0 | 1.8% | 4.9% |
| ပ | %8.0 0.8% | 2012 | | | | | | | 0.0% | 0.8% | 1.8% | 4.9% | 10.6% |
| ĸ | 98.2% 1.8% | 2011 | | | | | | %0.0 | 0.8% | 1.8% | 4.9% | 10.6% | 15.7% |
| 4 | 96.4% 4.9% | 2010 | | | | | %0.0 | 0.8% | 1.8% | 4.9% | 10.6% | 15.7% | 48.6% |
| က | 91.5% 10.6% | 2009 | ÷ | | | %0.0 | 0.8% | 1.8% | 4.9% | 10.6% | 15.7% | 48.6% | 16.5% |
| 7 | 80.9% 15.7% | 2008 | | | %0:0 | 0.8% | 1.8% | 4.9% | 10.6% | 15.7% | 48.6% | 16.5% | |
| ~ | 65.2% 48.6% | 2007 | | %0.0 | %8.0 | 1.8% | 4.9% | 10.6% | 15.7% | 48.6% | 16.5% | | |
| 0 | 16.5% 16.5% | FY Paid <u>2006</u> | %0:0 | 0.8% | 1.8% | 4.9% | 10.6% | 15.7% | 48.6% | 16.5% | | | |
| Release Lag Years | Cumulative Incremental | FY <u>Released</u> | 1998 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |

Note: Payment pattern from Exhibit 7, Sheet 2.3

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Ultimate Paid by Fiscal Year of Release As of 06/30/05

| | (1) | (2) | (3) |
|----------|-----------------|-----------------|-----------------|
| FY | FRA | PSTA | SOTRA |
| Released | <u>Ultimate</u> | <u>Ultimate</u> | <u>Ultimate</u> |
| Prior | 25,221,371 | 15,944,539 | |
| 1991 | 14,905,903 | 7,743,329 | |
| 1992 | 34,471 005 | 10,914,725 | |
| 1993 | 15,997,027 | 16,624 901 | |
| 1994 | 14,534,360 | 18,852,052 | |
| 1995 | 12,432 291 | 35,961,670 | |
| 1996 | 19 383 422 | 37,850,046 | |
| 1997 | 11,856,081 | 49 551,378 | |
| 1998 | 14,519,853 | 78,614 222 | 5,343,055 |
| 1999 | 11,234,067 | 41,221,148 | 2,604,221 |
| 2000 | 3,728,428 | 16,814,306 | 1,430,337 |
| 2001 | 3,455,676 | 13,433,077 | 1,657,061 |
| 2002 | 1,784,884 | 8,822,715 | 2,019,815 |
| 2003 | 4,491,970 | 8,326,357 | 1,797,202 |
| 2004 | 1,225,211 | 17,627,465 | 2,106,886 |
| 2005 | 2,937,234 | 13,004,784 | 1 099 327 |
| 2006 | 3,072,216 | 14,188,730 | 1 732 100 |
| 2007 | 3,053,458 | 14,102 098 | 1 732 100 |
| 2008 | 3,039 389 | 14 037 124 | 2 596 296 |
| 2009 | 3 028 838 | 0 | 0 |
| 2010 | 2 997 184 | 0 | 0 |
| 2011 | 2,997,184 | 0 | 0 |
| 2012 | 2,997,184 | 0 | 0 |
| 2013 | 2,997,184 | 0 | 0 |
| 2014 | 2,997,184 | 0 | 0 |
| 2015 | 2,997,184 | 0 | 0 |

Notes:

- (1) Exhibit 6, Sheet 1.1, Column 3
- (2) Exhibit 6, Sheet 1.2, Column 3
- (3) Exhibit 7, Sheet 1.3, Column 3

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Fuel Receipts by Fiscal Year As of 06/30/05

| | (1) | (2) | | (3) |
|-------------|---------------|--------------|-------------|---------------|
| Fiscal | Actual | Annual | Fiscal | Projected |
| <u>Year</u> | Fuel Receipts | <u>Trend</u> | <u>Year</u> | Fuel Receipts |
| 2000 | 44,373,798 | | 2006 | 45,545,734 |
| 2001 | 42,511,867 | -4 2% | 2007 | 46,001,191 |
| 2002 | 43,235,618 | 1 7% | 2008 | 46,461,203 |
| 2003 | 44,879,246 | 3 8% | 2009 | 46,925,815 |
| 2004 | 44,728,554 | -0.3% | 2010 | 47,395,073 |
| 2005 | 45,094,786 | 0 8% | 2011 | 47,869,024 |
| | | | 2012 | 48,347 714 |
| Selected | | 1.0% | 2013 | 48,831,191 |
| | | | 2014 | 49,319,503 |
| | | | 2015 | 49.812.698 |

Notes:

⁽¹⁾ Provided by Company (OPSTEAF Fund Balance Report.)

^{(2) = (1) /} Prior (1) - 1.000

⁽³⁾ Fuel Receipts projected to increase using the selected trend.

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
General Expense Ratio
As of 06/30/05

| | (1) | | (3) | (4) | (5) | (9) |
|-----------------------|------------------------|-------------------------|-------------------------|------------------|------------------|-----------------------------|
| Fiscal <u>Year</u> | Total Expenses Paid | Annual <u>Change</u> | Salary Expenses Paid | Annual Change | Paid Claims | Expense <u>To Claims</u> |
| 2001 | 4,444,434 | - | 3,076,764 | | 28,229,554 | |
| 2002 | 3,909,069 | -12.0% | 3,301,666 | 7.3% | 24,094,429 | |
| 2003 | 3,556,267 | %0.6- | 3,197,303 | -3.2% | 26,085,853 | |
| 2004 | 3,653,516 | 2.7% | 3,333,444 | 4.3% | 21,574,579 | |
| 2002 | 2,903,831 | -20.5% | 2,348,706 | -29.5% | 19,792,004 | |
| 2006 | 3,715,700 | 28.0% | 3,215,700 | 36.9% | | |
| 2002 | 3,817,600 | 2.7% | 3,317,600 | 3.2% | Average | |
| 2008 | 3,930,400 | 3.0% | 3,430,400 | 3.4% | Weighted Average | |
| 2009 | 2,358,240 | -40.0% | | | Selected Average | |
| 2010 | 2,405,405 | 2.0% | | | • | |
| 2011 | 2,453,513 | 2.0% | | | | |
| 2012 | 2,502,583 | 2.0% | | | | |
| 2013 | 2,552,635 | 2.0% | | | | |
| 2014 | 2,603,688 | 2.0% | | | | |
| 2015 | 2,655,761 | 2.0% | | | | |

Notes:

(1) and (3) Provided by Fund (PSTEAF Financial Statements)
Large reduction in 2005 the result of a reorganization of the fund management.
A similar reduction is expected in 2009 when PSTA and SOTRA expire.
Projected Expenses for 2006-2008 taken from the Biennial Budget.

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
Estimated Future Claims by Fiscal Year of Release
As of 06/30/05

| (1) Protected | (2) Unprotected | (3) Total | | (4) Releases | (2) | (6) Ultimate | (7) Ultimate | (8) Ultimate |
|------------------|------------------------|------------------------|-----------------------|--------------------|---------------------|-----------------|-----------------|-----------------|
| anks | Tanks <u>Active</u> | Active <u>Tanks</u> | FY <u>Released</u> | Reported to ERT | Release <u>%</u> | Claims FRA | Claims PSTA | Claims SOTRA |
| 11.430 | 20,674 | 32,104 | 1991 | 147 | 0.46% | 63 | 61 | |
| 1,785 | 18,554 | 30,339 | 1992 | 194 | 0.64% | 220 | 92 | |
| 2,002 | 16,695 | 28,697 | 1993 | 473 | 1,65% | 118 | 155 | |
| 2,101 | 15,038 | 27,139 | 1994 | 481 | 1.77% | 112 | 179 | |
| 2,360 | 13,473 | 25,833 | 1995 | 459 | 1.78% | 26 | 252 | |
| 2,459 | 11,845 | 24,304 | 1996 | 510 | 2.10% | 101 | 311 | |
| 2,579 | 069'6 | 22,269 | 1997 | 991 | 4.45% | 75 | 220 | |
| 2,503 | 5,970 | 18,473 | 1998 | 1,455 | 7.88% | 139 | 626 | 205 |
| 2,692 | 3,573 | 16,265 | 1999 | 818 | 5.03% | 113 | 482 | 289 |
| 2,631 | 2,265 | 14,896 | 2000 | 560 | 3.76% | 56 | 256 | 177 |
| 3,025 | 1,589 | 14,614 | 2001 | 549 | 3.76% | 32 | 238 | 194 |
| 2,933 | 1,127 | 14,060 | 2002 | 238 | 1.69% | 28 | 182 | 225 |
| 2,739 | 781 | 13,520 | 2003 | 243 | 1.80% | 36 | 170 | 179 |
| 2,685 | 591 | 13,376 | 2004 | 306 | 2.29% | 19 | 131 | 212 |
| 2,433 | 415 | 12,848 | 2005 | 649 | 5.05% | 19 | 43 | 124 |
| 2,433 | 311 | 12,744 | 2006 | 446 | 3.50% | 36 | 201 | 187 |
| 2,433 | 233 | 12,666 | 2007 | 443 | 3.50% | 35 | 199 | 187 |
| 2,433 | 175 | 12,608 | 2008 | 441 | 3.50% | 35 | 199 | 280 |
| 2,433 | 131 | 12,564 | 2009 | 440 | 3.50% | 35 | PSTA ends | SOTRA ends |
| 2,433 | PSTA ends | 12,433 | 2010 | 435 | 3.50% | 35 | 01/15/08 | 07/15/08 |
| 2,433 | 01/15/08 | 12,433 | 2011 | 435 | 3.50% | 35 | | |
| 2,433 | | 12,433 | 2012 | 435 | 3.50% | 35 | | |
| 2,433 | | 12,433 | 2013 | 435 | 3.50% | 35 | | |
| 2,433 | | 12,433 | 2014 | 435 | 3.50% | 35 | | |
| 2,433 | | 12,433 | 2015 | 435 | 3.50% | 35 | | |

(1) - (4) Provided by Fund for 1991 through 2005. For 2006 through 2015:

Report Exhibits

^{(1) = 2005} entry as a conservative measure. Expect some movement from unprotected as PSTA nears expiration.
(2) 2006 and subsequent years reflect a 25% annual decline,
(4) = (3) × (5)
(5) = (4) / (3) through 2005. Judgmental selection for 2006 and subsequent.
(6) From Exhibit 6, Sheet 1.1, Column (5) for 1991 through 2005.
(7) From Exhibit 6, Sheet 1.2, Column (5) for 1998 through 2006.
(8) From Exhibit 7, Sheet 1.3, Column (5) for 1998 through 2005.
For 2006 through 2015:

^{(6) = (4)} x Selected Future Release Percentage shown on Exhibit 5, Sheet 1.1 (7) = (4) x Selected Future Release Percentage shown on Exhibit 5, Sheet 1.2 (8) From Exhibit 7, Sheet 1.3, Column (8)

5:34 PM

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
FRA IBNR Claims
As of 06/30/05

FRA Only

| | (5) | (2) | (3) | (4) | (2) | (9) | (7) | (8) | (6) |
|---|---|-------|-----------------------------|----------------|-------------------------------|--------------------|----------------------------|----------------------------|------------------------|
| FY Released | Claims Reported | CDF | Ultimate <u>Reported</u> | IBNR Claims | Cumulative <u>Reported</u> | Reported to ERT | Cumulative Releases | Cumulative <u>Ratio</u> | Annua! <u>Ratio</u> |
| Prior | 118 | 1.010 | 119 | * | 119 | | | | |
| 1991 | 62 | 1.010 | 63 | _ | 182 | 147 | 147 | 123.7% | 42.6% |
| 1992 | 217 | 1.014 | 220 | ო | 402 | 194 | 341 | 117.9% | 113.5% |
| 1993 | 116 | 1.014 | 118 | 2 | 520 | 473 | 814 | 63.8% | 24.9% |
| 1994 | 110 | 1.021 | 112 | 2 | 632 | 481 | 1,295 | 48.8% | 23.3% |
| 1995 | 94 | 1.036 | 97 | က | 729 | 459 | 1,754 | 41.6% | 21.2% |
| 1996 | 26 | 1.044 | 101 | 4 | 831 | 510 | 2,264 | 36.7% | 19.9% |
| 1997 | 7.1 | 1.056 | 75 | 4 | 906 | 991 | 3,255 | 27.8% | 7.6% |
| 1998 | 130 | 1.068 | 139 | တ | 1,044 | 1,455 | 4,710 | 22.2% | 9.5% |
| 1999 | 105 | 1.081 | 113 | ω | 1,158 | 818 | 5,528 | 20.9% | 13.9% |
| 2000 | 50 | 1.111 | 26 | မ | 1,213 | 260 | 6,088 | 19.9% | %6.6 |
| 2001 | 28 | 1.133 | 32 | 4 | 1,245 | 549 | 6,637 | 18.8% | 5.8% |
| 2002 | 24 | 1.171 | 28 | 4 | 1,273 | 238 | 6,875 | 18.5% | 11.8% |
| 2003 | 29 | 1.232 | 36 | 7 | 1,309 | 243 | 7,118 | 18.4% | 14.7% |
| 2004 | 13 | 1.443 | 50 | φ | 1,328 | 306 | 7,424 | 17.9% | 6.1% |
| 2005 | 9 | 3.085 | 19 | 5 | 1,346 | 649 | 8,073 | 16.7% | 2.9% |
| Total | 1,270 | | 1,346 | 92 | | 8,073 | | | |
| Notes: (1) Exhibit 5, Sheet 2.1 (2) Exhibit 5, Sheet 2.1 (3) = (1) x (2) (4) = (3) - (1) (5) Prior (5) + (3) (6) Provided by Fund (7) Prior (7) + (6) (8) = (5) / (7) (9) = (3) / (6) | neet 2.1 neet 2.1) } Fund) | | | | | | Selected Future Percentage | e Percentage | 8.0% |

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
PSTA IBNR Claims
As of 06/30/05

PSTA Only

| | Ē | (2) | (3) | 4) | (5) | (9) | (2) | (8) | (6) |
|---|----------------------|-------|----------------------|----------------|-------------------------------|--------------------|-------------------------------|----------------------------|-----------------|
| FY Released | Claims Reported | CDF | Ultimate Reported | IBNR Claims | Cumulative <u>Reported</u> | Reported to ERT | Cumulative <u>Refeases</u> | Cumulative <u>Ratio</u> | Annual Ratio |
| Poind | 84 | 1 040 | 87 | m | 87 | | | | |
| 1991 | - 80 - 80 | 1.053 | . 6 | സ | 148 | 147 | 147 | 101.0% | 41.5% |
| 1992 | 87 | 1.059 | 92 | co. | 241 | 194 | 341 | 70.5% | 47.5% |
| 1993 | 144 | 1.076 | 155 | 7 | 395 | 473 | 814 | 48.6% | 32.8% |
| 1994 | 165 | 1.086 | 179 | 4 | 575 | 481 | 1,295 | 44.4% | 37.2% |
| 1995 | 218 | 1,155 | 252 | 34 | 826 | 459 | 1,754 | 47.1% | 54.9% |
| 1996 | 264 | 1.179 | 311 | 47 | 1,138 | 510 | 2,264 | 50.3% | 61.0% |
| 1997 | 479 | 1.191 | 570 | 91 | 1,708 | 991 | 3,255 | 52.5% | 27.6% |
| 1998 | 813 | 1.204 | 626 | 166 | 2,687 | 1,455 | 4,710 | 22.0% | 67.3% |
| 1999 | 397 | 1.214 | 482 | 85 | 3,169 | 818 | 5,528 | 57.3% | 28.9% |
| 2000 | 209 | 1.226 | 256 | 47 | 3,425 | 560 | 6,088 | 56.3% | 45.7% |
| 2001 | 192 | 1.242 | 238 | 46 | 3,664 | 549 | 6,637 | 55.2% | 43.4% |
| 2002 | 144 | 1.264 | 182 | 38 | 3,846 | 238 | 6,875 | 55.9% | 76.5% |
| 2003 | 130 | 1.309 | 170 | 40 | 4,016 | 243 | 7,118 | 56.4% | 70.0% |
| 2004 | 91 | 1.445 | 131 | 4 | 4,147 | 306 | 7,424 | 25.9% | 43.0% |
| 2005 | 17 | 2.545 | 43 | 26 | 4,190 | 649 | 8,073 | 51.9% | 6.7% |
| Total | 3,492 | | 4,190 | 869 | | 8,073 | | | |
| Notes: (1) Exhibit 5, Sheet 2.2 (2) Exhibit 5, Sheet 2.2 (3) = (1) x (2) | heet 2.2 heet 2.2 | | | | | | Selected Future Percentage | re Percentage | 45.0% |

(4) = (3) - (1) (5) Prior (5) + (3) (6) Provided by Fund (7) Prior (7) + (6) (8) = (5) / (7) (9) = (3) / (6)

Report Exhibits

3/20/2006

Commonwealth of Kentucky Petroleum Storage Tank Enveromental Assurance Fund FRA Claim Reporting Pattern by Fiscal Year of Release As of 06130105

FRA Only

| Total | 118 262 27 110 110 94 97 105 105 28 28 28 28 28 28 28 28 28 28 28 28 39 40 40 40 40 40 40 40 40 40 40 40 40 40 | | | |
|--|---|------------------------------------|--|-----------------------------|
| 192 | 84. | 192+ | | 1.010 1.010 99.0% |
| 380 | 118 | 180-192 | 1.000 7 000 1.000 1.000 1.000 | 1.000 1.010 99.0% |
| 168 | 2217 217 | 168-180 | 1,000 1,000 1,000 1,004 1,004 1,006 | 1.004 1.014 98.6% |
| 156 | 117 217 217 116 | 156-168 | 1,000 1,000 1,000 1,000 1,000 1,000 1,000 | 1,000 1,014 98.6% |
| 344 | 62 217 217 116 110 | 144-156 | 1,026 1,000 1,000 1,000 1,000 1,000 1,000 1,006 | 1,007 1,021 97,9% |
| 132 | 107 217 217 115 110 94 | 132-144 | 1.085 1.000 1.000 1.000 1.000 1.015 1.015 1.015 1.015 | 1.015 1.036 96.5% |
| 120 | 46 6 7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 120-132 | 1,138 1,016 1,000 1,000 1,001 1,011 1,007 1,007 | 1,007 1,044 95.8% |
| 108 | 80 214 110 110 97 77 | 108-120 | 1.175 1.052 1.045 1.045 1.011 1.000 1.000 1.004 1.004 | 1.012 1.056 94.7% |
| 96 | 68 209 107 110 92 96 70 130 | 96-108 | 1,176 1,025 1,022 1,020 1,000 1,010 1,014 1,038 1,038 1,038 1,038 | 1.011 1.068 93.7% |
| 4 | 49 204 204 107 107 88 96 70 130 105 | 84.96 | 1.388 1.058 1.058 1.058 1.000 1.000 1.000 1.006 1.006 1.006 1.000 | 1.012 1.081 92.5% |
| <u>77</u> | 4 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 72-84 | 1,043 1,025 1,025 1,172 1,049 1,000 1,000 1,046 1,046 1,046 1,046 | 1,028 1,111 90.0% |
| <u>80</u> | 4 2 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 60-72 | 1,119 1,036 1,036 1,030 1,030 1,045 1,020 1,020 1,036 1,036 1,036 1,036 | 1.020 1.133 88.2% |
| Fiscal Year 48 | 24 4 80 7 7 8 8 8 8 8 9 7 4 7 1 4 8 9 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 48-60 | 1,313 1,025 1,102 1,101 1,012 1,015 1,024 1,037 1,067 1,067 1,067 1,060 1,060 | 1.033 1.171 85.4% |
| Begmning of | 12 18 18 17 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | 36-48 | 2.667 11189 11011 11053 11.115 11.066 11.065 11.087 11.188 11.188 11.000 1.000 | 1.052 1.232 81.2% |
| Months from 24 | :- 26 0 0 7 7 7 7 8 6 1 8 8 8 8 1 8 2 2 8 2 1 8 | Factors <u>24-36</u> | 12,000 1,609 1,017 1,114 1,113 1,113 1,124 1,079 1,070 1,000 | 1.171 1.443 69.3% |
| Reporting Lag Months from Beginning of Fiscal Year 12 24 48 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | Development Factors 12-24 24-36 | 2.300 1.1570 1.273 1.273 1.273 1.890 1.561 1.561 1.561 1.564 1.778 1.844 1.844 1.844 1.844 1.857 | 2.138 3.085 32.4% |
| FY Refeased | Prior 1991 1992 1994 1995 1997 1999 2000 2000 2003 2003 2003 | FY Released | Prior 1991 1992 1993 1995 1996 1997 1999 2000 2001 2001 2002 2002 2003 2004 Average Last 5 Last 3 | Selected Cumulative % |

Notes: Development factors equal cumulative claims reported at X + 12 months divided by cumulative claims reported at X months.

84 87 87 144 165 218 2264 813 397 209 130 130

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
PSTA Claim Reporting Pattern by Fiscal Year of Release
As of 06/30/05

PSTA Only

| Total | 64 64 64 64 64 64 64 64 64 64 | | | |
|---|---|---------------------|---|--|
| 192 | 46 | 192+ | | 1.040 1.040 95.2% |
| 180 | 89 89 | 180-192 | 1.012 | 1.012 1.053 95.0% |
| 168 | 8 7 9 8 4 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 168-180 | 1,000 | 1,006 1,059 94,4% |
| 156 | 81 85 87 144 | 156-168 | 1,000 | 1.016 1.076 92.9% |
| 144 | 79 86 144 145 165 | 144-156 | 1.025 1.090 1.000 1.000 1.009 1.009 1.009 | 1.009 1.009 1.086 92.1% |
| 132 | 6.5 1.4.4 1.6.4 1.6.4 1.6.4 | 132-144 | 1.215 1.098 1.000 1.000 1.006 1.064 1.064 | 1.064 1.155 1.155 86.5% |
| 120 | 60 8 8 8 4 4 8 2 4 4 8 2 16 4 4 8 2 2 6 4 8 2 2 6 4 8 2 2 6 4 8 2 6 8 8 2 6 8 8 2 6 8 8 8 8 8 8 8 8 8 | 120-132 | 1,083 1,044 1,044 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 | 1.021 1.179 1.179 84.8% |
| 108 | 57 86 80 140 113 215 215 264 264 | 108-120 | 1,065 1,065 1,006 1,006 1,006 1,006 1,006 1,006 1,007 1,010 1,010 | 1.010 1.191 84.0% |
| 8) | 48 43 43 43 448 448 448 | 96-108 | 1,188 1,053 1,053 1,000 1,000 1,000 1,000 1,000 1,000 1,011 1,011 | 1.011 1.204 83.1% |
| 8 | 38 39 1135 1138 212 262 262 262 397 397 | 84-96 | 1,263 1,103 1,027 1,027 1,013 1,024 1,000 1,001 1,001 1,008 1,008 | 1.008 1.214 1.214 82.4% |
| 7.2 | 28 31 69 127 157 212 259 269 395 209 | 72-84 | 1.357 1.072 1.072 1.006 1.006 1.006 1.007 1.005 1.005 1.005 | 1.023 1.226 1.226 81.6% |
| 9 | 22 660 118 140 207 205 256 769 776 388 192 | 60-72 | 1.647 1.409 1.150 1.151 1.024 1.013 1.016 1.017 1.013 1.013 1.013 1.013 1.013 | 1.043 1.013 1.242 80.5% |
| Fiscal Year 48 | 8 18 104 107 108 202 251 251 761 761 191 | 48-60 | 2.122 1.122 1.135 1.135 1.025 1.020 1.026 1.036 1.036 1.036 1.036 1.048 | 1.048 1.064 79.1% |
| Reporting Lag Months from Beginning of Fiscal Year $\frac{12}{2}$ | 2 46 46 101 101 101 103 103 103 103 103 103 | 36-48 | 4,000 1,286 1,109 1,109 1,021 1,047 | 1.035 1.309 76,4% |
| g Months fron | 4 35 36 36 36 36 36 36 36 36 36 36 36 36 36 | Factors 24-36 | 3.500 1.314 1.118 1.148 1.086 1.080 1.117 1.108 1.068 1.068 1.018 1.018 1.018 | 1,104 1,445 69,2% |
| Reporting Lag | 16 56 63 109 110 275 375 236 105 61 74 67 | Development Factors | 2.188 1.179 1.397 1.397 1.789 1.789 1.384 1.386 1.390 1.300 | 1.761 1.761 2.545 39.3% |
| FY Released | Prior 1391 1392 1393 1395 1396 1396 1397 1398 1398 1399 2000 2001 2002 2003 2004 2005 | FY Released | Prior 1991 1992 1993 1996 1996 1999 1999 2001 2002 2002 2002 2004 Average Last 5 | ved Avg Selacted Cumulative % |

Notes: Development factors equal cumulative claims reported at X + 12 months divided by cumulative claims reported at X months.

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund FRA Ultimate Paid by Fiscal Year of Release As of 06/30/05

FRA Only

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------------------|-----------------|--------|-------------------------|---------------|---------------------------|----------------------------|
| FY | Cumulative | | Ultimate | | Ultimate | Average |
| Released | <u>Paid</u> | CDF | <u>Paid</u> | <u>Unpaid</u> | <u>Claims</u> | Severity |
| Prior | 16 814 247 | 1 500 | 25 221.371 | 8 407 124 | 119 | 211 624 |
| 1991 | 9 481 008 | 1 572 | 14 905 903 | 5 424 895 | 63 | 238 037 |
| 1992 | 20 930 640 | 1 647 | 34 471 005 | 13 540 365 | 220 | 156.610 |
| 1993 | 9 232 970 | 1 733 | 15 997 027 | 6 764 057 | 118 | 135 959 |
| 1994 | 7 849 453 | 1 852 | 14 534 360 | 6 684 908 | 112 | 129 414 |
| 1995 | 6 266 453 | 1 984 | 12 432 291 | 6 165 837 | 97 | 127 647 |
| 1996 | 9 190 224 | 2 109 | 19 383 422 | 10 193 198 | 101 | 191 466 |
| 1997 | 5 308 135 | 2.234 | 11 856,081 | 6 547 946 | 75 | 158 070 |
| 1998 | 6 092 110 | 2 383 | 14 519 853 | 8.427 743 | 139 | 104 624 |
| 1999 | 4 393 326 | 2 557 | 11 234 067 | 6 840 742 | 113 | 98 998 |
| 2000 | 1 286 500 | 2 898 | 3 728 428 | 2 441 928 | 56 | 67 091 |
| 2001 | 1 019 657 | 3 389 | 3 455,676 | 2 436 019 | 32 | 108 883 |
| 2002 | 438 161 | 4 074 | 1 784 884 | 1 346 724 | 28 | 63 491 |
| 2003 | 757 1 90 | 5 932 | 4 491 970 | 3 734 780 | 36 | 125 706 |
| 2004 | 116 907 | 10 480 | 1 225 211 | 1 108 304 | 19 | 65 306 |
| 2005 | 0 | | 2 937 234 | 2 937 234 | | 86 095 |
| Total | 99 176.981 | | 192 178,784 | 93 001 803 | 1 346 | 142 756 |
| | | | (7) | | (8) | (9) |
| FY <u>Released</u> | | | Ultîmate <u>Paid</u> | | Ultimate <u>Claims</u> | Average <u>Severity</u> |
| 2006 | | | 3.072 216 | | 36 | 86.095 |
| 2007 | | | 3,053,458 | | 35 | 86 095 |
| 2008 | | | 3 039,389 | | 35 | 86.095 |
| 2009 | | | 3 028 838 | | 35 | 86 095 |

2 997 184

2 997 184

2 997,184

2 997,184

2 997 184

2,997 184

Notes:

(1) Exhibit 6, Sheet 2.1

2010

2011

2012

2013

2014

2015

- (2) Exhibit 6, Sheet 2.1
- (3) = (1) x (2) except 2005, which is based on a five year average of column (3) from 2000 through 2004.
- (4) = (3) (1)
- (5) Exhibit 5, Sheet 1.1, Column 3
- (6) = (3) / (5) except 2005, which is based on a five year average of column (6) from 2000 through 2004
- $(7) = (8) \times (9)$
- (8) Exhibit 4, Column (6)
- (9) = (6) for most recent Fiscal Year Released

It is assumed that the average severity of claims will not increase in the future, because future inflation in the cost of site remediation will be offset by:

- (1) Improved regulation
- (2) More efficient remediation of contaminated sites
- (3) Impact of HB 282 on reimbursable costs,
- (4) Earlier remediation of the worst contaminated sites

35

35

35

35

35

35

86,095

86 095

86 095

86,095

86 095

86 095

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund PSTA Ultimate Paid by Fiscal Year of Release As of 06/30/05

PSTA Only

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------------------|-------------|--------|-------------------------|-------------|---------------------------|----------------------------|
| FY | Cumulative | | Ultimate | | Ultimate | Average |
| Released | <u>Paid</u> | CDF | <u>Paid</u> | Unpaid | <u>Claims</u> | Severity |
| Prior | 12 265 030 | 1 300 | 15 944 539 | 3 679 509 | 87 | 182 515 |
| 1991 | 5 587 606 | 1 386 | 7 743 329 | 2 155 722 | 61 | 126 843 |
| 1992 | 7 570 002 | 1 442 | 10 914 725 | 3 344 723 | 92 | 118 473 |
| 1993 | 10 691 754 | 1 555 | 16 624 901 | 5 933,147 | 155 | 107,305 |
| 1994 | 11 152 976 | 1 690 | 18,852.052 | 7 699 076 | 179 | 105 222 |
| 1995 | 19 381 034 | 1 856 | 35 961 670 | 16 580 636 | 252 | 142 794 |
| 1996 | 18 877 417 | 2.005 | 37 850 046 | 18,972 629 | 311 | 121 584 |
| 1997 | 23 470 996 | 2 111 | 49 551 378 | 26 080 382 | 570 | 86 858 |
| 1998 | 33 885 176 | 2.320 | 78 614 222 | 44 729 046 | 979 | 80 321 |
| 1999 | 16 309 716 | 2.527 | 41 221 148 | 24 911 432 | 482 | 85,542 |
| 2000 | 5 927 512 | 2 837 | 16 814 306 | 10 886 794 | 256 | 65 630 |
| 2001 | 4 119 904 | 3 261 | 13 433 077 | 9 313 174 | 238 | 56 323 |
| 2002 | 2 220 275 | 3 974 | 8 822 715 | 6 602 440 | 182 | 48 475 |
| 2003 | 1 486 627 | 5 601 | 8 326 357 | 6 839 730 | 170 | 48 939 |
| 2004 | 1 441 759 | 12 226 | 17 627 465 | 16,185 705 | 131 | 134.075 |
| 2005 | 0 | | 13.004.784 | 13,004.784 | | 70 688 |
| Total | 174 387 785 | | 391 306 714 | 216 918 929 | 4 190 | 93 380 |
| | | | (7) | | (8) | (9) |
| FY <u>Released</u> | | | Ultîmate <u>Paid</u> | | Ultimate <u>Claims</u> | Average <u>Severity</u> |
| 2006 | | | 14 188 730 | | 201 | 70 688 |
| 2007 | | | 14.102,098 | | 199 | 70 688 |
| 2008 | | | 14 037,124 | | 199 | 70 688 |
| 2009 | | | | | | |
| 2010 | | | | | | |
| 2011 | | | | | | |
| 2012 | | | | | | |
| 2013 | | | | | | |
| 2014 | | | | | | |
| 2015 | | | | | | |

Notes:

- (1) Exhibit 6, Sheet 2.2
- (2) Exhibit 6, Sheet 2.2
- (3) = (1) x (2) except 2005, which is based on a five year average of column (3) from 2000 through 2004
- (4) = (3) (1)
- (5) Exhibit 5, Sheet 1.2, Column 3
- (6) = (3) / (5) except 2005, which is based on a five year average of column (6) from 2000 through 2004.
- $(7) = (8) \times (9)$
- (8) Exhibit 4, Column (7)
- (9) = (6) for most recent Fiscal Year Released

It is assumed that the average severity of claims will not increase in the future, because future inflation in the cost of site remediation will be offset by:

- (1) Improved regulation
- (2) More efficient remediation of contaminated sites
- (3) Impact of HB 282 on reimbursable costs,
- (4) Earlier remediation of the worst contaminated sites

Report Exhibits

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Commonwealth of Kentucky Petroleum Storage Tank Euritonmental Assurance Fund FRA Payment Pattern by Fiscal Year of Release As of 06:00:00

FRA Only

| Total | 16,814.247 20,4481,008 20,203.0,600 20,223.970 7,848.453 6,786.453 5,108.135 4,787.100 10,857 4,391.278 1,307 1,019.657 1,019.657 1,019.657 1,019.657 1,019.657 1,019.657 1,019.657 1,019.657 1,019.657 1,019.657 | | | |
|---|--|--------------------------|---|-----------------------------|
| 192 | 16.814,247 | 192+ | | 1,500 1,500 66.7% |
| 180 | 9.481.008 | 180-192 | 1 0 48 | 1.048 1.572 63.6% |
| 168 | 15,010,397 9,237 830 20,930,640 | 168-180 | 1008 | 1,048 1,647 60,7% |
| 156 | 13,983,658 8,730,412 20,480,156 9,232,970 | 156-168 | 1 075 1 053 1 052 1 052 1 052 | 1,052 1,733 57,7% |
| 144 | 12,873,037 8,108,863 8,590,732 7,849,453 | 144-156 | 1 069 1 069 1 069 1 069 1 069 | 1,069 1,852 54.0% |
| 132 | 11,654,278 7,575,153 18,405,804 18,405,230 7,526,274 6,266,453 | 132-144 | 1,105 1,070 1,072 1,043 1,043 1,071 1,071 | 1.984 50.4% |
| <u>120</u> | 9,621,614 7,189,980 7,190,291 7,190,137 7,205,656 5,598,888 9,190,224 | 120-132 | 1,211 1,054 1,068 1,088 1,088 1,065 1,090 | 1,063 2,109 47,4% |
| 108 | 7,533,855 6,371,941 6,719,816 6,719,816 6,719,47 8,591,535 5,308,135 | 108-120 | 1.277 1.127 1.040 1.071 1.071 1.070 1.100 1.100 1.100 1.059 | 1.059 2.234 44.8% |
| 98 | 5.257,070 5.916,831 6.016,976 6.549,816 6.549,816 8.3420,520 8.318,900,053 6.092,110 | 96-108 | 1,435 1,077 1,074 1,124 1,053 1,083 1,083 1,083 1,067 1,067 1,067 | 1.067 2.383 42.0% |
| % 1 | 4,837,713 4,883,201 14,446,222 5,445,661 5,945,436 7,711,277 4,552,053 5,561,756 4,383,326 | 84-96 | 1.24 1.118 1.108 1.108 1.107 1.078 1.078 1.078 1.078 | 1.073 2.557 39.1% |
| 27 | 3,525,467 4,346,245 4,914,747 5,402,138 5,402,138 7,218,478 3,579,796 5,598,859 5,52,946 1,286,590 | 72-84 | 1,1202 1,1203 1,103 1,101 1,101 1,066 1,066 1,139 1,171 1,130 1,130 1,133 1,113 | 1,133 2,898 34,5% |
| 읾 | 1,681,507 3,500,943 4,087,6180 4,910,756 9,938,747 3,209,683 3,209,683 1,209,683 1,709,683 1,709,683 1,709,683 1,709,683 1,709,683 | 22-09 | 1.2897 1.2898 1.2098 1.100 1.170 1.172 1.203 1.162 1.093 1.163 1.163 1.163 1.163 1.163 1.163 1.163 1.163 1.163 1.163 | 1,169 3,389 29,5% |
| iscal Year | 680,575 10,035,607 10,035,607 3,035,607 3,036,604 4,180,044 2,82,571 3,675,644 2,82,574 3,675,644 2,82,574 4,89,464 886,754 4,38,161 | 48-60 | 1,420 1,183 1,183 1,183 1,122 1,120 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 | 1.202 4.074 24.5% |
| seginaing of F | 332,973 1,375,087 1,375,087 2,940,280 2,968,856 2,977,624 1,542,768 2,577,232 5,37,232 5,37,232 5,37,232 5,37,232 5,37,232 5,37,232 5,37,232 5,37,232 5,37,232 | 36-48 | 2.044 (.793 | 1,456 5,932 16,9% |
| Months from E | 864,467 4,651,476 1,642,550 1,205,058 1,205,058 1,317,317 1,317,314 1,317,31 | nent Factors 24-36 | 1.591 1.776 1.776 1.976 1.976 1.955 2.032 2.032 2.032 1.543 1.543 1.543 1.543 1.767 1.767 1.873 1.833 | 1,767 10,480 9,5% |
| Payment Lag Months from Beginning of Fiscal Y | 2,181,304 227,149 285,219 285,204 28,265 54,316 42,208 18,710 40,170 42,093 28,476 28,476 28,476 28,476 28,476 | Paid Development Factors | 2.132 7.231 7.231 10.771 6.40.02 15.022 31.224 6.804 7.067 13.368 13.546 4.135 4.728 | 9.628 100.906 1.0% |
| FY Released | Prior 1987 1987 1985 1995 1995 1995 1995 1995 2000 2001 2004 2004 2004 | FY Released | Prior 1991 1992 1993 1993 1999 1999 1999 1999 | Selected Cumulative % |

Note: Development factors equal cumulative payments at X + 12 months divided by cumulative payments at X months

Commonwealth of Kentucky
Petroleum Stonge' Tank Environmental Assurance Fund
PSTA Payment Pattern by Fiscal Year of Release
As of 06/30/05

PSTA Only

| Total | 12.265.030 7.507.606 7.500.002 10.691.754 11.122.976 19.381.034 18.877.417 23.470.996 33.865.176 5.379.716 5.379.716 5.379.716 5.379.716 5.379.716 5.379.716 7.206.275 1.466.627 | | | | |
|--|--|--|---|--|-----------------------------|
| 192 | 12,265,030 | 192+ | | | 1,300 1,300 76.9% |
| 150 | 5,587,606 | 180-192 | | 1,066 1,066 1,066 1,066 | 1.066 1.386 72.2% |
| 16.8 | 11.050.187 5.374.483 7.570.002 | 168-180 | 1040 | 1.040 1.040 1.040 1.041 | 1,040 1,442 69,4% |
| 156 | 10,130,104 4,865,639 7,277,999 10,691,754 | 156-168 | 1.040 | 1.078 1.078 1.078 1.077 | 1.978 1.555 64.3% |
| 144 | 8,588,383 4,352,958 7,068,844 10,688,976 | 144-156 | 1,180 1,118 1,029 1,021 | 1.087 1.087 1.056 1.082 | 1.087 1.590 59.2% |
| 132 | 7,259,883 3,874,711 6,331,514 10,022,044 10,888,154 19,381,034 | 132-144 | 1.183 1.123 1.186 1.045 1.032 | 1.098 1.098 1.061 1.085 | 1.098 1.856 53.9% |
| 120 | 6.289.524 3.424.007 5.663.29 9.747.822 9.864.534 19.027.610 | 120-132 | 1,154 1,132 1,129 1,026 1,036 1,019 | 1,093 1,081 1,047 1,069 | 1.081 2.005 49.9% |
| 108 | 5,497,355 2,467,096 2,467,096 9,7219,907 18,727,488 118,727,448 17,817,774 23,470,996 | 108-120 | 1,144 1,422 1,055 1,057 1,057 1,059 | 1,119 1,053 1,051 1,070 | 1.053 2.111 47.4% |
| 8 l | 3,527,584 1,710,326 4,976,333 8,548,113 8,548,113 17,588,327 16,781,852 21,400,089 33,885,176 | 96-108 | 1,558 1,407 1,078 1,078 1,225 1,033 1,067 | 1,182 1,099 1,064 1,111 | 1,099 2,320 43,1% |
| 쀪 | 1,053,824 1,173,802 4,455,502 7,471,956 6,698,716 17,025,158 15,903,406 19,468,123 16,308,716 | 84-96 | 3.347 1.124 1.125 1.156 1.056 1.098 1.112 | 1,398 1,089 1,089 | 1.089 2.527 39.6% |
| <u>51</u> | 356.430 664,423 3.760,983 6.237.266 5.616.410 16.189.161 14.563.431 16.055,140 27.099.911 14.391.415 | 72-84 | 2,957 1,651 1,177 1,193 1,193 1,091 1,124 1,133 | 1,378 1,152 1,156 1,142 | 1.122 2.837 35.3% |
| 읾 | 71.936 3018,948 30.108,948 3.015,004 5.155,004 14,007,490 12,308,658 12,308,924 5.457,976 5.457,976 4,119,904 | 60-72 | 4,955 2215 1,249 1,210 1,108 1,139 1,164 1,164 | 1,598 1,149 1,142 1,160 | 1.149 3.261 30.7% |
| Fiscal Year | 28,983 1,197,705 2,987,795 2,987,795 12,346,468 12,346,329 19,329,846 19,329,846 19,329,846 19,329,846 3,303,803 2,220,275 | 48-60 | 10.560 2.719 1.743 1.245 1.247 1.203 1.203 1.203 1.203 1.247 | 2.267 1.219 1.233 1.260 | 1.219 3.974 25.2% |
| Payment Lag Months from Beginning of Fiscal Y 12 24 36 48 | 597,508 379,843 2,318,855 9,670,253 7,913,808 14,353,247 6,955 6,957,904 3,009,743 1,899,403 1,486,827 | 36-48 | 1.854 3.019 1.684 1.273 1.265 1.365 1.347 1.423 1.510 1.598 | 1,590 1,409 1,392 | 1,409 5,601 17.9% |
| Months from 24 | 310,209 310,209 3,306,44 4,622,181 4,622,181 3,206,506 1,879,378 775,334 825,107 1,441,759 | Paid Development Factors 12-24 <u>24:36</u> | 3,159 4,089 2,397 2,397 1,860 2,42 2,728 1,501 2,508 1,802 | 2,488 2,183 2,395 2,290 | 2.183 12.226 8.2% |
| Payment Lag <u>12</u> | 484,414 196,547 296,577 137,892 177,892 177,154 174,113 29,401 76,532 145,016 | Paid Develop 12-24 | 8.554 16.653 15.562 39.562 30.007 24.450 9.886 5.690 7.183 | 15.636 11.485 7.590 13.712 | 11,485 140,421 0.7% |
| FY Released | Prior 1991 1992 1993 1995 1996 1996 1999 2000 2000 2000 2000 2000 2000 | FY Released | Prior 1991 1992 1993 1994 1995 1996 1999 2000 2000 2001 2003 | Average Lust 5 Lust 3 Wtd Avg | Selected Cumulative % |

Note: Development factors equal cumulative payments at X+12 months divided by cumulative payments at X months

Petroleum Storage Tank Environmental Assurance Fund FRA Ultimate Paid by Fiscal Year Reported As of 06/30/05 Commonwealth of Kentucky

FRA Only

| (6) I Iltimate | Average Severity | 191,742 | 101,541 | 134,613 | 133,671 | 79,318 | 112,970 | 114,001 | 79,598 | 70,748 | 83,204 | 59,791 | 49,829 | 69,183 | 59,451 | 64,292 | 96,933 |
|-------------------|---------------------------|-----------|------------|------------|------------|-----------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| (5) | Reported Claims | 11 | 131 | 160 | 96 | 80 | 72 | 128 | 117 | 171 | 86 | 52 | 65 | 32 | 39 | 18 | 1,270 |
| (4) | Unpaid | 61,432 | 515,298 | 1,142,993 | 916,857 | 659,063 | 1,117,660 | 2,585,313 | 2,010,071 | 3,137,112 | 2,505,880 | 1,242,330 | 1,518,637 | 1,214,273 | 1,529,970 | 3,771,297 | 23,928,185 |
| (3) | Ultimate <u>Paid</u> | 2,109,161 | 13,301,847 | 21,538,008 | 12,832,439 | 6,345,407 | 8,133,868 | 14,592,167 | 9,312,985 | 12,097,947 | 8,153,960 | 3,109,153 | 3,238,874 | 2,213,862 | 2,318,599 | 3,806,890 | 123,105,165 |
| (2) | CDF | 1.030 | 1.040 | 1.056 | 1.077 | 1.116 | 1.159 | 1.215 | 1.275 | 1.350 | 1.444 | 1.665 | 1.883 | 2.215 | 2.940 | | |
| (5) | Cumulative <u>Paid</u> | 2,047,729 | 12,786,549 | 20,395,015 | 11,915,582 | 5,686,345 | 7,016,208 | 12,006,854 | 7,302,915 | 8,960,835 | 5,648,080 | 1,866,822 | 1,720,238 | 999,589 | 788,629 | 35,592 | 99,176,981 |
| | FY Reported | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | Total |

Notes:

⁽¹⁾ Exhibit 7, Sheet 2.1
(2) Exhibit 7, Sheet 2.1
(3) = (1) x (2) except 2005, which is based on a five year average of column (3) from 2000 through 2004.
(4) = (3) - (1)
(5) Exhibit 7, Sheet 3, Column 1
(6) = (3) / (5) except 2005, which is based on a five year average of column (6) from 2000 through 2004.

Petroleum Storage Tank Environmental Assurance Fund PSTA Ultimate Paid by Fiscal Year Reported As of 06/30/05 Commonwealth of Kentucky

PSTA Only

| (4) (5) (6) | Reported Average Unpaid Claims Severity | | 376,409 22 159,688 | 94 | 94 | 169 | 249 | | 12,030,582 654 63,432 | 640 | 240 | 218 | 245 | 201 | | 54 | 93.506.256 3.492 76.717 |
|-------------|---|------|--------------------|------------|-----------|------------|------------|------------|-----------------------|------------|------------|------------|------------|-----------|-----------|------------|-------------------------|
| (3) | Ultimate <u>Paid</u> | | 3,513,147 | 11,889,435 | 8,724,710 | 21,154,815 | 29,334,788 | 36,900,196 | 41,484,535 | 41,903,841 | 14,906,440 | 15,436,597 | 13,456,866 | 7,847,425 | 9,176,484 | 12,164,762 | 267,894,042 |
| (2) | CDF | | 1.120 | 1.155 | 1.166 | 1.235 | 1.300 | 1.340 | 1.408 | 1.513 | 1.648 | 1.839 | 2.117 | 2.596 | 4.052 | | |
| (1) | Cumulative <u>Paid</u> | | 3,136,738 | 10,293,072 | 7,481,946 | 17,122,893 | 22,560,924 | 27,539,369 | 29,453,954 | 27,700,794 | 9,046,224 | 8,395,805 | 6,355,765 | 3,022,556 | 2,264,832 | 12,912 | 174,387,785 |
| | FY Reported | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | Total |

Notes:

- (1) Exhibit 7, Sheet 2.2
 (2) Exhibit 7, Sheet 2.2
 (3) = (1) x (2) except 2005, which is based on a five year average of column (3) from 2000 through 2004.
 (4) = (3) (1)
 (5) Exhibit 7, Sheet 3, Column 2
 (6) = (3) / (5) except 2005, which is based on a five year average of column (6) from 2000 through 2004.

Report Exhibits

5:34 PM

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund SOTRA Ultimate Paid by Fiscal Year Application Received As of 06/30/05

SOTRA Only

| | (1) | (2) | (3) | (4) | (5) | (6) Ultimate |
|---------------------------------|---------------------------|-------|-------------------------------------|-----------|---|-----------------------------------|
| FY <u>Received</u> | Cumulative <u>Paid</u> | CDF | Ultimate <u>Paid</u> | Unpaid | Number of Applications | Average Severity |
| 1998 | 5,290,153 | 1.010 | 5,343,055 | 52,902 | 205 | 10,539 |
| 1999 | 2,578,437 | 1.010 | 2,604,221 | 25,784 | | 9,011 |
| 2000 | 1,405,090 | 1.018 | 1,430,337 | 25,247 | | 8,081 |
| 2001 | 1,597,780 | 1.037 | 1,657,061 | 59,281 | | 8,542 |
| 2002 | 1,847,986 | 1.093 | 2,019,815 | 171,829 | 225 | 8,977 |
| 2003 | 1,453,226 | 1.237 | 1,797,202 | 343,976 | | 10,040 |
| 2004 | 1,373,163 | 1.534 | 2,106,886 | 733,723 | | 9,938 |
| 2005 | 181,814 | 6.046 | 1,099,327 | 917,513 | | 8,866 |
| Total | 15,727,649 | | 18,057,905 | 2,330,256 | 1,907 | 9,469 |
| Projected FY <u>Received</u> | | | (7) Ultimate <u>Paid</u> | | (8) Number of <u>Applications</u> | (9) Average <u>Severity</u> |
| 2006 2007 2008 2009 | | | 1,732,100 1,732,100 2,596,296 | | 187 187 280 | 9,272 9,272 9,272 |
| Notes: | | | 5 | | > | D |

- Notes:
 (1) Exhibit 7, Sheet 2.3
 (2) Exhibit 7, Sheet 2.3
 (3) = (1) x (2)
 (4) = (3) (1)
 (5) Exhibit 7, Sheet 3, Column 2
 (6) = (3) / (5)

- (7) = (8) x (9) Note: SOTRA terminates 07/15/08.
 (8) = Five Year Average of Column (5). 2008 increased 50% to cover surge in last year to apply.
 (9) = Five Year Average of Column (6).

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund FRA Payment Pattern by Fiscal Year Reported As 07 06/3005

FRA Only

| Reported | 1004 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | | F | Reported | 1991 | 7887 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2002 | 2003 | 2004 | Average | Lasto | Wtd Avg | Selected | % |
|---------------|-----------|-------------------------|------------|------------|-----------|-----------|------------|-----------|-------------|-----------|-----------|-----------|---------|---------|-------|--------------------------|-------------------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|---------|----------|--------|
| 12 | | 2,360,893 | 538,997 | 155,219 | 215,768 | 169,141 | 740,533 | 711,575 | 504,334 | 317,027 | 648,311 | 706,822 | 78.481 | 96,331 | 30000 | Paid Development Factors | 12-24 | ļ | 2.176 | 17.282 | 8.738 | 8.238 | 4.773 | 4.963 | 7.426 | 6.578 | 1,558 | 10.992 | 8.187 | 7.089 | 5,840 | 4.560 | 7.089 | 70.04 |
| 24 | 4 047 053 | 5,136,217 | 5,045,871 | 2,682,424 | 1,885,369 | 1,393,413 | 3,534,699 | 3,531,464 | 3,745,431 | 2,085,665 | 1.081,206 | 1,255,306 | 862,635 | 788,629 | | nent Factors | 24-36 | 1.237 | 1.418 | 1.691 | 1.722 | 1.901 | 1.562 | 1.390 | 1.480 | 1.486 | 1.284 | 1 159 | 3 | 1,482 | 1,327 | 1.521 | 1.327 | 34 00% |
| 36 | 4 050 074 | 7,283,905 | 8,615,231 | 4,534,870 | 3,247,279 | 2,648,368 | 5,519,784 | 4,908,436 | 5,542,118 | 3,099,291 | 1,388,796 | 1,542,008 | 999,589 | | | | 36-48 | 1,150 | 1.211 | 1.188 1.350 | 1,169 | 1.265 | 1.425 | 1,123 | 1,105 | 1.320 | 1.219 | 2 | | 1.221 | 1.176 | 1.228 | 1,176 | 20.21 |
| 왕 | 4 449 404 | 8,823,087 | 10,332,571 | 6,121,199 | 3,796,809 | 3,349,501 | 7,866,517 | 5,510,569 | 6, 121, 770 | 4,090,218 | 1,692,940 | 1,720,238 | | | | | 48-60 | 1.100 | 1.103 | 1.767 | 1.103 | 1.391 | 1.131 | 1.072 | 1.144 | 1.202 | 1.103 | | | 1.159 | 1.130 | 1.153 | 1.130 | 1.000 |
| 8 | 4 500 007 | 1,582,897 | 11,674,922 | 7,758,411 | 4,187,778 | 4,659,437 | 8,900,713 | 5,909,747 | 7,004,650 | 4,914,848 | 1,866,822 | | | | | | 60-72 | 1.023 | 1.067 | 1 103 | 1.091 | 1.250 | 1,108 | 1,133 | 1.128 | 1.149 | | | | 1.122 | 1,154 | 1.126 | 1.154 | 000 |
| 77 | ,000 | 1,628,834 | 13,592,370 | 8,560,589 | 4,568,408 | 5,822,542 | 9,857,823 | 6,698,005 | 7.904,672 | 5,648,080 | | | | | | | 72-84 | 1.077 | 1.066 | 1.112 | 1,035 | 1,045 | 1.088 | 1.045 | 1,134 | | | | | 1.073 | 1.069 | 1,089 | 1.069 | 44 |
| 2 | 1 750 001 | 11,071,126 | 15.117.623 | 9,066,335 | 4,730,509 | 6,085,590 | 10,721,312 | 6,997,366 | 8,960,835 | | | | | | | | 84-96 | 1.039 | 1.039 | 1.057 | 1.043 | 1.086 | 1.060 | 1.044 | | | | | | 1.054 | 1.059 | 1.055 | 1.059 | 255 |
| 981 | 1004 1004 | 11,507,736 | 15,978,644 | 9,618,976 | 4,931,701 | 6,608.424 | 11,368,934 | 7.302.915 | | | | | | | | | 96-108 | 1.020 | 0.991 | 1.043 | 1.060 | 1.032 | 1.056 | | | | | | | 1.037 | 1.049 | 1.049 | 1.049 | 1.275 |
| 8 | 4 000 | 11,405,711 | 16,663,507 | 10,160,304 | 5,225,739 | 6,817,639 | 12,006,854 | | | | | | | | | | 108-120 | 1.031 | 1.029 | 1.061 | 1.046 | 1.029 | | | | | | | | 1.045 | 1.048 | 1.051 | 1.048 | 1.215 |
| 120 | 100 | 1,915,236 | 17.584.777 | 10,934,679 | 5,468,236 | 7,016,208 | | | | | | | | | | | 120-132 | 1.020 | 1.016 | 1.083 | 1040 | ! | | | | | | | | 1.039 | 1.039 | 1.053 | 1.039 | 1,159 |
| 132 | 170 000 | 1,952,617 | 19 146,224 | 11,331,337 | 5,686,345 | | | | | | | | | | | | 132-144 | 1.015 | 1.034 | 1.044 | 300 | | | | | | | | | 1.036 | 1.036 | 1043 | 1.036 | 1.116 |
| 144 | . 000 | 1,982,330 | 19,990,878 | 11,915,582 | | | | | | | | | | | | | 144-156 | 1,025 | 1.014 | 1.020 | | | | | | | | | | 1,020 | 1,020 | 1.020 | 1.020 | 1.077 |
| 156 | | 2,031,300 | 20,395,015 | | | | | | | | | | | | | | 156-168 | 1.008 | 1.023 | | | | | | | | | | | 1.015 | 1.015 | 1.015 | 1.015 | 1.056 |
| 168 | | 2,046,554 12,786,549 | | | | | | | | | | | | | | | 168-180 | 1,001 | | | | | | | | | | | | 1.001 | 1.001 | 1.001 | 1.010 | 1.040 |
| 의 | 1 | 2,047,729 | | | | | | | | | | | | | | | 180 | | | | | | | | | | | | | | | | 1.030 | 1.030 |

Note: Development factors equal cumulative payments at X + 12 months divided by cumulative payments at X months.

Report Exhibits

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund PSTA Payment Pattern by Fiscal Year Reported As of 06/30/05

PSTA Only

| Total | 3,136,738 | 7,481,946 | 77,560,934 | 27,539,369 | 29,453,954 | 27,700,794 | 9.046.224 | 8,395,805 | 9,355,755 | 2.064.833 | 12.912 | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|-------------------------|------------|------------|------------|------------------------|------------------------|-----------|-----------|-----------|--------|--------------------------|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|---------|--------|--------|---------|----------|------------|---------|
| 168 | 3,136,738 | | | | | | | | | | | | 168+ | | | | | | | | | | | | | | | | , | 1.120 | 89.3% |
| 156 | 3,041,446 | | | | | | | | | | | | 156-168 | 1.031 | | | | | | | | | | | | 1,031 | 1031 | 1.031 | | 1.155 | 86.6% |
| 4 | 3,031,852 | 7.481.946 | | | | | | | | | | | 144-156 | 1,003 | 1.016 | | | | | | | | | | 4 | 0.0 | 1010 | 1.013 | ć | 1.166 | 85.8% |
| 132 | 2.845,997 9,444,806 | 7,191,403 | 11.122.033 | | | | | | | | | | 132-144 | 1.065 | 1.073 | 1.040 | | | | | | | | | 90 | 1.059 | 1.059 | 1.060 | 070 | 1.235 | 80.9% |
| 120 | 2.809,829 8.916,397 | 6.580.120 | 22.560.924 | | | | | | | | | | 120-132 | 1.013 | 1.059 | 1.093 | 1.045 | | | | | | | | 2 | 1.052 | 1.066 | 1.055 | 1 052 | 1,300 | 76.9% |
| 108 | 2.764,336 | 6,405,644 | 22.040.160 | 27,539,369 | | | | | | | | | 108-120 | 1.016 | 1.054 | 1.027 | 1.031 | 1.024 | | | | | | | - | 1031 | 1.027 | 1.030 | 1 031 | 1.340 | 74.6% |
| 96 | 2,738,419 7,834,148 | 6,134,060 | 21,440,400 | 25,889,352 | 29.453,954 | | | | | | | | 96.108 | 1.009 | 1.080 | 1.044 | 1.040 | 1.028 | 1,054 | | | | | | 400 | 1.051 | 1,044 | 1.048 | 1 051 | 1.408 | 71.0% |
| 188 | 2,698,739 6,648,701 | 5,562,981 | 20,644,156 | 24,153,235 | 26,808,298 | 27.700.794 | | | | | | | 84-96 | 1.015 | 1.178 | 1.103 | 1.058 | 1.039 | 1.072 | | | | | | 1 080 | 1.074 | 1,070 | 1.077 | 1.074 | 1.513 | 66.1% |
| 2 2 | 2,621,734 6,007,351 | 5,292,053 | 19,648,928 | 21,568,465 | 24,248,786 | 25,004,465 | 9,040,224 | | | | | | 72-84 | 1.029 | 1.107 | 1.051 | 1.063 | 1,001 | 1 106 | 1.108 | | | | | 1.079 | 1.089 | 1.111 | 1.090 | 1.089 | 1.648 | %2.09 |
| 9 | 2,491,836 5,130,796 | 5,075,121 12,627,886 | 18,501,438 | 19,817,006 | 20,813,604 | 7 544 537 | 7,344,937 8,335,805 | | | | | | 60-72 | 1.052 | 1.171 | 1.043 | 1.076 | 200.1 | 1.165 | 1,125 | 1.139 | | | | 1.102 | 1.116 | 1.143 | 1.108 | 1.116 | 1.839 | 54.4% |
| Fiscal Year <u>48</u> | 1,134,542 3,420,450 | 4,221,512 | 16,242,943 | 16,962,369 | 17,943,746 | 18,928,669 | 7 204 792 | 6,355,765 | | | | ; | 48-60 | 2.196 | 1.500 | 1.202 | 1.106 | 1 168 | 1.160 | 1.174 | 1,166 | 1.090 | | | 1.290 | 1.152 | 1.143 | 1.174 | 1.152 | 2.117 | 47.2% |
| Payment Lag Months from Beginning of Fiscal Year 12 24 36 48 | | 2,999,312 | | | _ | 15,282,271 | | | | | | : | 36-48 | 1.792 | 3,173 | 1.407 | 1,205 | 1 243 | 1.270 | 1.239 | 1.309 | 1.184 | 1.130 | | 1.471 | 1.226 | 1.208 | 1.263 | 1.226 | 2.596 | 20.5% |
| Months from 24 | 338,929 | 1,040,886 | 8,753,094 | 8,395,122 | 7,005,977 | 9,438,196 3,161,240 | 4 067 714 | 3,805,687 | 2,071,882 | 2,264,832 | | ment Factors | 24-36 | 1 | 3.180 | 7.687 | 1.686 | 1,626 | 2.017 | 1,619 | 1.647 | 1.599 | 1.479 | 1,459 | 1.921 | 1.561 | 1.512 | 1,722 | 1.561 | 4.052 | 24.7.70 |
| Рауment Lag <u>12</u> | | 36,481 | 1,116,524 | 1,071,036 | 533,255 | 569.879 | 1.113.618 | 1,889,614 | 540,067 | 390,452 | 12,912 | Paid Development Factors | 12-24 | | 00 | 78037 | 7807 | 7.838 | 13.138 | 7.687 | 5.547 | 3.653 | 2.014 | 3.836 | 8.525 | 4,170 | 3.884 | 6.015 | 9.000 | 20.259 | i, 9 |
| FY Reported | 1992 1993 | 1994 1995 | 1996 | 1997 | 1998 | 1959 | 2001 | 2002 | 2003 | 2004 | 2005 | Ϋ́ | Керопеа | 1992 | 1993 | 1994 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2004 | Average | Last 5 | Last 3 | Wtd Avg | Selected | Cumulative | • |

Note: Development factors equal cumulative payments at X+12 months divided by cumulative payments at X months.

Report Exhibits

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
SOTRA Payment Pattern by Fiscal Year Reported
As of 06/30/05

SOTRA Only

| Total | 5,290,153 2,578,437 1,405,030 1,597,780 1,847,986 1,453,226 1,373,163 181,814 | | |
|--|--|---|---|
| 96 | 5,290,153 | + 96 | 1.010 1.010 99.0% |
| 8 | 5,290,153 2,578,437 | <u>84-96</u> 1.000 | 1.000 1.000 1.000 1.000 1.000 1.000 1.010 |
| 72 | 5,261,603 2,552,017 1,405,090 | 72-84 1.005 1.010 | 1.008 1.008 1.008 1.007 1.008 1.018 |
| <u>0</u> | 5,239,393 2,446,954 1,392,262 1,597,780 | 60-72 1.004 1.009 | 1.019 1.019 1.015 1.015 1.019 1.037 |
| Fiscal Year 48 | 5,128,270 2,289,657 1,317,645 1,543,882 1,847,986 | 48-60 1.022 1.070 1.035 | 1.046 1.046 1.054 1.039 1.054 1.093 |
| Payment Lag Months from Beginning of Fiscal Year | 4,801,083 1,906,217 1,103,916 1,334,922 1,769,546 1,453,226 | 36-48 1.068 1.200 1.194 1.157 | 1.132 1.132 1.131 1.111 1.131 1.237 80.9% |
| Months from 24 | 3,441,083 759,632 479,561 1,007,294 i,471,285 1,217,083 1,373,163 | Paid Development Factors 12-24 24-36 3.799 1.395 2.509 2.302 8.946 1.325 6.202 1.203 2.993 1.194 2.627 | 1.655 1.707 1.241 1.477 1.241 1.534 65.2% |
| Payment Lag | 905,698 0 112,591 237,208 406,643 522,755 181,814 | Paid Develop 12-24 3.799 8.946 6.202 2.993 2.627 | 4.914 5.192 3.941 3.895 3.941 6.046 |
| FY Reported | 1998 1999 2000 2001 2002 2003 2004 | FY Reported 1998 1999 2000 2001 2002 2003 | Average Last 5 Last 3 Wtd Avg Selected Cumulative |

Note: Development factors equal cumulative payments at X + 12 months divided by cumulative payments at X months.

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Reported Claim Comparison as of 06/30/05

Exhibit 7 Sheet 3

| | (1) | (2) | (3) | (4) | (2) |
|----------------|-------------------------|-------------------|-----------------------|--------------------|--------------------|
| FY Reported | FRA <u>6/30/2005</u> | PSTA 6/30/2005 | Subtotal 6/30/2005 | SOTRA 6/30/2005 | Total 6/30/2005 |
| 1991 | = | | ,_ | | |
| 1992 | 131 | 22 | 153 | | 153 |
| 1993 | 160 | 94 | 254 | | 254 |
| 1994 | 96 | 94 | 190 | | 190 |
| 1995 | 80 | 169 | 249 | | 249 |
| 1996 | 72 | 249 | 321 | | 321 |
| 1997 | 128 | 434 | 562 | | 562 |
| 1998 | 117 | 654 | 771 | 507 | 1,278 |
| 1999 | 171 | 640 | 811 | 289 | 1,100 |
| 2000 | 86 | 240 | 338 | 177 | 515 |
| 2001 | 52 | 218 | 270 | 194 | 464 |
| 2002 | 65 | 245 | 310 | 225 | 535 |
| 2003 | 32 | 201 | 233 | 179 | 412 |
| 2004 | 39 | 178 | 217 | 212 | 429 |
| 2005 | 48 | 54 | 72 | 124 | 196 |
| TOTAL | 1,270 | 3,492 | 4,762 | 1,907 | 6,669 |

Notes: Provided by Fund

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
Average Claim by Deductible Option
As of 06/30/05

| (6) Average All Claims Combined | 51,468 40,294 98,447 47,058 124,578 42,527 66,125 120,470 212,147 i.430 58,571 | (12) Claim Count All Claims Combined | 2,875 264 311 46 70 129 276 484 4,834 |
|--|---|---|---|
| (5) Average All Claims PSTA | 51,513 53,109 94,036 33,461 140,401 18,877 71,306 97,309 1,790 50,615 | (11) Claim Count All Claims PSTA | 2865 104 111 20 25 36 40 82 0 0 267 3,551 |
| (4) Average All Clarms <u>FRA</u> | 38,373 31,965 100,896 57,517 115,787 51,682 65,247 125,194 212,194 212,147 80,591 | (10) Claim Count All Claims FRA | 10 160 200 26 45 93 236 402 108 |
| (3) Average Closed Claim Combined | 50,389 31,896 75,031 101,324 157,973 58,886 65,132 111,530 2,018 | (9) Claim Count Closed Claim <u>Combined</u> | 2,592 98 98 13 23 48 97 132 0 188 5,290 |
| (2) Average Closed Claim PSTA | 50,434 48,452 119,422 67,472 320,134 46,140 81,756 103,540 2,810 | (8) Claim Count Closed Claim PSTA | 2,586 13 12 2 2 10 10 135 2,771 |
| (1) Average Closed Claim FRA | 31,066 30,817 68,242 107,478 142,529 62,240 64,035 112,256 | (7) Claim Count Closed Claim FRA | 9 92 95 111 121 121 0 0 53 |
| Deductible | 0 500 1,000 2,500 5,000 12,000 25,000 50,000 No Code Total | Deductible | 0 500 1,000 2,500 5,000 10,000 12,500 56,000 No Code Total |

Notes: All fields derived from PSTEAF's Payment and Claims data bases. Report Exhibits

5:34 PM

Commonwealth of Kentucky Petroleum Storage Tank Environmental Assurance Fund Average Claim by Size of Loss As of 06/30/05

| 1,000,000 1,000,000 |
|---------------------|

Notes: All fields derived from PSTEAF's Payment and Claims data bases. Size of Loss Label reflects top end of range. For example, the \$50,000 label reflects claims that have accumulated to over \$40,000, up to \$50,000.

Commonwealth of Kentucky
Petroleum Storage Tank Environmental Assurance Fund
Average Claim Related to Average Obligation
As of 06/30/05

| Program | FRA PSTA SOTRA |
|---|------------------------------|
| (1) Closed Claim Average <u>Obilgation</u> | 80,575 55,053 12,611 |
| (2) Closed Claim Average <u>Payment</u> | 64,981 44,465 11,015 |
| (3) Ratio of Payment to Obligation | 80.65% 80.77% 87.34% |
| (4) Release Year Ultimate <u>Severity</u> | 86,095 70,688 |
| (5) Report Year Ultimate <u>Severity</u> | 64,292 55,688 8,866 |
| (6) Selected Ultimate <u>Severity</u> | 80,000 65,000 10,000 |
| (7) indicated Pmt/Obl <u>Ratio</u> | 99.29% 118.07% 79.29% |
| (8) Selected Pmt/Obl <u>Ratio</u> | 100.00% 120.00% 80.00% |

Notes:

(1) Derived from Fund Closed Claim Report, 6/30/05
(2) Derived from Fund Closed Claim Report, 6/30/05
(3) = (2) / (1)
(4) Exhibit 6, Sheet 1, Column (6) for Fiscal Year 2005
(5) Exhibit 7, Sheet 1, Column (6) for Fiscal Year 2005
(6) = Judgment based on Columns (2), (4), and (5)
(7) = (3) x (6) / (2)
(8) Judgment



Search the CAS Membership Directory

Need to make a change to your membership record? Complete the Member Address Change Form

Key: AFFI=Affiliate; ACAS=Associate; FCAS=Fellow

Key:

- Click to view member photo
- Click to view member CAS resume
- Click to save member's vCard

Search completed, 1 meets your criteria

Charles C. Emma [FCAS, 1993/11]

Title: Principal

Company: Pinnacle Actuarial Resources, Inc.

524 W. State Street

Ste G

Geneva, IL 60134

Phone: (630)262-0954 Fax: (630)262-0961 E-mail: cemma@pinnacleactuaries.com

Conduct a New Search

Casualty Actuarial Society • 4350 N. Fairfax Drive, Suite 250 • Arlington, VA 22203 • Ph. (703) 276-3100 • Fax: (703) 276-3108 • office@casact.org

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Search the CAS Membership Directory

Need to make a change to your membership record? Complete the Member Address Change Form.

Key: AFFI=Affiliate; ACAS=Associate; FCAS=Fellow

Key:

- Click to view member photo
- Click to view member CAS resume
- Click to save member's vCard

Search completed, 1 meets your criteria

Shawna S. Ackerman [FCAS, 1996/11]

Title: Principal & Consulting Actuary

Company: Pinnacle Actuarial Resources, Inc 50 California St, #1500 San Francisco, CA 94111

Phone: (415)439-5226 Fax: (415)439-5228 E-mail: shawnaa@pinnacleactuaries.com

Conduct a New Search

Casualty Actuarial Society • 4350 N Fairfax Drive, Suite 250 • Arlington, VA 22203 • Ph: (703) 276-3100 • Fax: (703) 276-3108 • office@casact.org

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RFQ# DEP13936 Bid Date: 02/20/2007 Cost Proposal Format / Bid Sheets

Name of Proposing Firm:

Pinnacle Actuarial Resources, Inc.

| Task | Hours | Total Proposed Cost |
|--|------------|----------------------------|
| Entrance Conference (3 4 a) | 4 | \$2,500.00 |
| Actuarial Report (3 4 b 1-7) | 110 | \$28,000.00 |
| Physical and electronic copies of work papers (3 4 c) | 4 | \$1,000.00 |
| Three (3) on-site consultations (3 4 d) | 4 per = 12 | 3 @ \$2,500.00 =\$7.500.00 |
| Exit Conference (3 4 e) | 4 | \$2,500.00 |
| Monthly status reports (3 4 f) | 4 | \$1,000.00 |
| Grand Total | | |
| | 138 | \$42,500.00 |

Hourly Rates and Projected Work Distribution Assigned Staff:

| | Hourly Rate | Projected Distribution |
|--|----------------------------|------------------------|
| Partner | \$ \$400.00 | 20% |
| Senior Actuary | \$ \$325.00 | 30% |
| Staff Actuary Actuary Assistant | \$ \$200.00 \$ \$200.00 | 40% |
| Administrative Staff Clerical Staff | \$ \$90.00 \$ \$90.00 | 10% |
| Total | N/A | 100% |

The hourly rates listed are considered firm for Fiscal Year 2006 and FY2007 Ancillary expenses (travel meals, lodging, etc.) are to be included in Total Proposed Cost and proposed hourly rates.

Revised 1-22-07

| Must | be properly licensed and possess certification as a member of the American Academy of Actuaries and either a Fellow of the Society of Actuaries or a Fellow to the Casualty Actuarial Society. |
|-------|--|
| Must | Demonstrate experience in providing actuarial rate setting and plan design services to a client involving environmental liabilities. |
| Shall | The firm <i>shall</i> also provide information on the results of any federal or state desk reviews or field reviews of its audits during the past three (3) years. |
| Shall | the firm <i>shall</i> provide information on the circumstances and status of any litigation taken or pending against the firm during the past three (3) years with any government regulatory bodies or professional organizations. |
| Will | The bids from firms failing to meet the mandatory criteria will not be considered further in the evaluation process. |

AGREEMENT ADDENDUM

WV-96

LOCEDTED DV

In the event of conflict between this addendum and the agreement this addendum shall control:

- 1 ARBITRATION Any references to arbitration contained in the agreement are hereby deleted Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims
- 2. HOLD HARMLESS Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety
- 3 GOVERNING LAW The agreement shall be governed by the laws of the State of West Virginia This provision replaces any references to any other State's governing law.
- 4 TAXES Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal. State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
- 5 PAYMENT Any references to prepayment are deleted. Payment will be in arrears
- 6 INTEREST Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law All other references to interest or late charges are deleted
- 7 RECOUPMENT Any language in the agreement waiving the Agency's right to set-off, counterclaim recoupment, or other defense is hereby deleted
- FISCAL YEAR FUNDING Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
- 9 STATUTE OF LIMITATION Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted
- 10 SIMILAR SERVICES Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted
- 11. ATTORNEY FEES The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void
- 12 ASSIGNMENT Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency. board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement
- 13 LIMITATION OF LIABILITY The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
- 14 RIGHT TO TERMINATE Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor
- 15. TERMINATION CHARGES Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term
- 16 RENEWAL Any reference to automatic renewal is hereby deleted The agreement may be renewed only upon mutual written agreement of the parties
- 17 INSURANCE Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted
- 18 RIGHT TO NOTICE Any provision for repossession of equipment without notice is hereby deleted However, the Agency does recognize a right of repossession with notice.
- 19. ACCELERATION Any reference to acceleration of payments in the event of default or non-funding is hereby deleted
- 20. <u>AMENDMENTS</u> All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General

| STATE OF WEST VIRGINIA | VENDOR |
|------------------------|---|
| Spending Unit: | Company Name: Pinnacle Actuarial Resources, |
| Signed: | Signed: |
| Title: | Title:Principal |
| Date: | Date: 12-19-06 |

| RFQ No | DEP | 13936 | |
|--------|-----|-------|--|
| | | | |

AFFIDAVIT

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from total contract amount

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

| Vendor's Name: | Pinnacle Actuarial Resources, Inc. | |
|--------------------------------------|------------------------------------|--|
| Authorized Signature: | Clark (6-3 | |
| No Debt Affidavit (Revised 10/13/06) | Charles C. Emma | |



State of West Virginia Department of Administration Purchasing Division

EMPLOYMENT HISTORY DISCLOSURE STATEMENT

Vendor shall identify any other work, similar or otherwise currently being performed for any agency, institution, educational facility, city, county, municipality or political subdivision of the State of West Virginia The State of West Virginia is concerned that current work could logically prevent the vendor from responsibly completing the referenced contract

The state of West Virginia reserves the sole and exclusive right to reject the bid of any vendor when the state believes any current work could logically prevent the vendor from successfully completing the bid/contract in question Failure to provide or disclose the required information listed shall be grounds for immediate disqualification/cancellation of the contract

Below, the vendor shall provide the agency name, effective dates, value, general description and time required to fulfill the duties of each contract.

| Agency <u>Name</u> | Effective <u>Dates</u> | <u>Value</u> | General <u>Description</u> | | Time Required Per Week |
|-----------------------|---------------------------|----------------|---------------------------------------|-------------|---------------------------|
| - W | None — | | | | |
| | | | | | |
| | | □ Check h | ere if additional sheets are attached | | |
| I certify tha | t the statements | s made above a | are true and accurate. | | |
| Charles | s c. Emma, Printed Nam | Principal | 12-19- | 0.6 Date | |
| <u> </u> | oulis CE | <u> </u> | | IJale | |
| | Signature | | | | |



HNDOR

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

DEP13936

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OFFICE OF ADMINISTRATION
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia
- 2. The State may accept or reject in part, or in whole, any bid
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 00 registration fee
- All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- 6 Payment may only be made after the delivery and acceptance of goods or services
- 7 Interest may be paid for late payment in accordance with the West Virginia Code.
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 9 The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller
- The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract including without limitation the validity of this Purchase Order/Contract.
- Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 13 BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order
- 14. HIPAA Business Associate Addendum The West Viginia State Government HIPAA Business Associate Addendum (BAA) approved by the Attorney General and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160 103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor

INSTRUCTIONS TO BIDDERS

- Use the quotation forms provided by the Purchasing Division.
- SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3 Complete all sections of the quotation form
- 4. Unit prices shall prevail in cases of discrepancy.
- All quotations are considered FOB destination unless alternate shipping terms are clearly identified in the quotation
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications

SIGNED BID TO:

Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130



Request for Quotation

DEP13936

PAGE

3

ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 304-558-2157

VENDOR

RFQ COPY TYPE NAME/ADDRESS HERE

Pinnacle Actuarial Resources, Inc. 524 West State Street, Suite G Geneva, IL 60134

ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF ADMINISTRATION
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

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Request for Quotation

REP13936

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 304-558-2157

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RFQ COPY
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Pinnacle Actuarial Resources, Inc. 524 West State Street, Suite G Geneva, IL 60134

ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF ADMINISTRATION
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

DATE PRINTED TERMS OF SALE SHIP VIA FOB FREIGHT TERMS 01/31/2007 BID OPENING DATE. 02/21/2007 BID OPENING TIME 01:30PM CAT LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT YEARS OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 90 DAYS NOTICE BY VENDOR OF INTENT TO TERMIN-WRITTEN NOTICE. ATE WILL NOT RELIEVE VENDOR OF THE OBLIGATION TO CON-TINUE TO PROVIDE SERVICES PURSUANT TO TERMS OF CONTRACT UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID & CONTRACT HEREIN. SEE SPECIFICATIONS FOR ADDITIONAL CANCELLATION SCENARIOS. BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATI-CALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER ... SEE REVERSE SIDE FOR TERMS AND CONDITIONS

Principal

GNATURE

FEIN -3669570

TELEPHONE (630) 262-0954

DATE 2-13-07

ADDRESS CHANGES TO BE NOTED ABOVE



RFQ COPY

Geneva, IL 60134

TYPE NAME/ADDRESS HERE

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Pinnacle Actuarial Resources, Inc.

524 West State Street, Suite G

Request for Quotation

RFQ NUMBER DEP13936

ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 304-558-2157

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF ADMINISTRATION 601 57TH STREET SE CHARLESTON, WV

25304 304-926-0499

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Request for

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

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Pinnacle Actuarial Resources, Incli 524 West State STreet, Suite G Geneva, IL 60134

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF ADMINISTRATION 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

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Request for Quotation

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ADDRESS CORRESPONDENCE TO ATTENTION OF

CHUCK BOWMAN 304-558-2157

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RFQ COPY TYPE NAME/ADDRESS HERE

Pinnacle Actuarial Resources, Inc. 1524 West State Street, Suite G 524 West State Street, Suite G Geneva, Il 60134

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF ADMINISTRATION 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

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PERFORMANCE BOND

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| (Name address o | r legal title of the Contractor) | | | | |
| as Principal, hereinafter called Contractor and | | | | | |
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| as Obligee, hereinafter called Owner, in the amount of | | | | | |
| Dollars (\$), for the payment wherec | f Contractor and Surety bind themselves, their heirs, executors | | | | |
| administrators, successors, and assigns, jointly and sev | rerally, firmly by these presents | | | | |
| WHEREAS, Contractor has by written agreement dated | d | | | | |
| | ontract with Owner for | | | | |
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| which contract is by reference made a part hereof, and | | | | | |
| Owner's obligations thereunder, the Surety may promptly reme | d void, otherwise it shall remain in full force and effect ion of time made by the Owner in default under the CONTRACT the Owner having performed edy the default, or shall promptly: | | | | |
| Complete the CONTRACT in accordance with its terr Shall save the Owner harmless from any claims, judg | ments, or liens arising from the Surety's failure to either remedy | | | | |
| the default or to complete the CONTRACT in accordance with No right of action shall accrue on this bond to or for the use | its terms and conditions in a timely manner of any person or corporation other than the Owner named herein | | | | |
| or the successors of Owner | | | | | |
| Signed and sealed this * | day of | | | | |
| Principal Raised Corporate Seal | (Contractor Name) (Seal) | | | | |
| Surety Raised Corporate Seal By(Must be President or Vice President) (Must be President or Vice President) | | | | | |
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| | By(Seal) | | | | |
| NOTE: Raised Corporate Seals are mandatory. Please attach Power of Attorney | NOTE: Applicable Section of attached acknowledge- ment must be completed and returned as part of the bond. | | | | |

APPROVED AG 10-30-95

* Power of Attorney must be certified on this date or later.

ACKNOWLEDGEMENTS

Acknowledgement by Principal if individual or Partnership

| 1 | STATE OF | |
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| 4 | county and state aforesaid, do hereby certify that whose name is signed to the foregoing writing has this day acknow | |
| 5 | Given under my hand this day of _ | , |
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| U | Notary Seal 7 | (Notary Public) |
| 8 | My commission expires on the day of | |
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| 9 | STATE OF <u>Illinois</u> | |
| 10 | County of Kane | |
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| 15 | Given under my hand this 1944 - day of Dec | e he - |
| 16 | Notary Spain DA E CALLAHAN 17 Notary Public, State of Illinols My Commission Expires of 1408 My commission expires on the day of Octo | Ar E Callahar (Notary Public) |
| 18 | My Commission Expires 10/14/09 day of Octo | ber 2009 |
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| 19 | STATE OF | |
| 20 | County of | to-wit: |
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| | county and state aforesaid, do hereby certify that | |
| | who as, | |
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| | has this day, in my said county, before me, acknowledged the said | a corporation, writing to be the act and deed of the said corporation |
| 25. | Given under my hand this day of | 20 |
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| | | (Notary Public) |
| 28 | My commission expires on the day of | 20 |
| | fficiency in Form and Manner | |
| | | torney General |
| This | s day of 20 By | (Accident Attention Co. 1) |
| | | (Assistant Attorney General) |

ACKNOWLEDGEMENT PREPARATION INSTRUCTIONS

- 1 IF PRINCIPAL IS AN INDIVIDUAL OR PARTNERSHIP, HAVE NOTARY COMPLETE LINES (1) through (8)
- 2 IF PRINCIPAL IS A CORPORATION, HAVE NOTARY COMPLETE LINES (9) through (18)
- 3 SURETY MUST HAVE NOTARY COMPLETE LINES (19) through (28)
- 4. Notaries must:

_ACKNOWLEDGEMENT BY PRINCIPAL IF INDIVIDUAL OR PARTNERSHIP_____

- Enter name of State.
- 2 Enter name of County.
- 3 Enter name of Notary Public witnessing transactions
- 4 Enter name of principal covered by bond if individual or partnership. Notary enters date bond was witnessed.
- 5 Must be the same as or later than signature date
- 6 Affix Notary Seal
- 7 Notary affixes his/her signature
- 8 Notary enters commission date

_ACKNOWLEDGEMENT BY PRINCIPAL IF CORPORATION

- 9. Enter name of State.
- 10 Enter name of County.
- 11 Enter name of Notary Public witnessing transactions.
- 12 Enter name of Corporate Officer signing bond (Must be President or Vice President.)
- 13 Enter Title of Corporate Officer signing bond
- 14. Enter name of Company or Corporation.
- 15 Notary enters date bond was witnessed. Must be the same as or later than signature date
- 16 Affix Notary Seal
- 17 Notary affixes his/her signature
- 18. Notary enters commission date.

____ACKNOWLEDGEMENT BY SURETY

- 19 Enter name of State
- 20. Enter name of County.
- 21 Enter name of Notary Public witnessing transactions
- 22 Enter name of person having power of attorney to bind Surety Company
- 23 Enter Title of person binding Surety Company
- 24 Enter name of Insurance Company (Surety)
- 25 Notary enters date bond was witnessed. Must be the same as or later than signature date.
- 26 Affix Notary Seal
- 27 Notary affixes his/her signature.
- 28 Notary enters commission date

POWER OF ATTORNEY INSTRUCTIONS

Power of attorney for surety must be attached showing that it was in full force and effect on signature date indicated on the face of the bond. A raised corporate seal must also be affixed to the Power of Attorney form.

- a. Name of attorney in fact must be listed (if attorney is a non-resident, bond must be countersigned by West Virginia resident agent)
- b Power of Attorney may not exceed imposed limitations.
- c Certificate date, the signature date of bond must be entered
- d. Signature of authorizing official must be affixed. (Signature may be facsimile)
- e Raised seal must be affixed.