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RJ Lee & Staff CVs

Response of RJ Lee Group to EPA Region 9 (Meer) Letter dated March 9, 2006

Regarding Evaluation of EPA's Analytical Data from the El Dorado Hills Asbestos Evaluation Project

Exhibit C 3.7

need to create/revise attachment contents (note: JC has sent request to TE & LH on 7/5/06

Date: July 2006

Prepared by:
RJ Lee*Group*, Inc.
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Richard J. Lee, PhD

Title	President
Location	Monroeville, PA
Degrees	PhD, Theoretical Solid State Physics, Colorado State University, 1970 BS, Physics, University of North Dakota, 1966
Focus Area Experience	Richard J. Lee, Ph.D., has been involved in the development of methods for the identification of asbestos and other airborne particles for more than 30 years. Dr. Lee authored the first computer software for the analysis of electron diffraction patterns and the automated sizing and chemical analysis of asbestos and other particles. Dr. Lee was an active participant in the first ASTM committee whose goal was to develop and test a TEM method for the analysis of asbestos; he was a co-author of the publication that resulted. Dr. Lee has served, from time to time, as an advisor to EPA for more than 25 years, beginning with the design of an EPA laboratory for the analysis of asbestos and other particulate, and served as a peer reviewer/consulting expert in the development and writing of EPA's Yamate method. Dr. Lee authored the TEM analysis method instituted as part of the AHERA rules. Dr. Lee performed the laboratory analysis underlying more than 30 EPA projects, including EPA's assessment of airborne asbestos concentrations in public buildings, and has served as a peer reviewer on other EPA projects. Dr. Lee was a member of the HEI peer review panel to assess the significance of asbestos in public buildings, and was one of the authors of the landmark report that resulted from that review. Dr. Lee and his staff actively consulted with and supported EPA Region 2 in evaluating contamination in NYC buildings impacted by the Events of 9/11. Dr. Lee and his staff designed, implemented, provided oversight and conducted sampling and laboratory analyses for building remediation. His group also planned, organized, developed protocols and conducted health and safety and community air quality monitoring programs in and around the impacted area and during deconstruction/demolition of one of the buildings. Dr. Lee and his staff reported project status and results to EPA Region 2 on a weekly basis during the course of this multi-year study. Dr. Lee and his staff actively supported EPA's Office of Research and Development in the development of a method to evaluate dusts from the Lower Manhattan district associated with the World Trade Center disaster. Dr. Lee and his staff supported EPA's investigation of potential emissions of tremolite asbestos from the Southdown Quarry in New Jersey. Dr. Lee has served on ASTM committees to define methods for the analysis of asbestos. Dr. Lee has served as an expert witness in state and federal courts in numerous asbestos related cases over the last twenty years. Dr. Lee has published the most extensive survey of asbestos concentrations in public buildings. Dr. Lee has also published over 150 papers. Dr. Lee supervised the data review and the laboratory analysis conducted in conjunction with RJLG's review of EPA's analytical data from the El Dorado Hills Asbestos Evaluation Project. Dr Lee holds a Ph. D. in theoretical solid state physics, and was previously employed by US Steel Research where he was active in the development of asbestos analysis methods before forming RJ Lee Group in 1985.

Drew R. Van Orden, MA, MS, PE

Title	Senior Scientist
Location	Monroeville, PA
Degrees	MA, Applied Statistics, University of Pittsburgh, 1998 MS, Mineral Process Engineering, Penn State University, 1979 BA, Meteorology & Oceanography, Millersville State College, 1975
Focus Area Experience	Mr. Van Orden is a senior scientist at RJ Lee Group (RJLG). He has more than 20 years of experience developing asbestos analytical methods; analyzing asbestos-containing materials; and the design, conduct and evaluation of studies to measure potential asbestos release from asbestos-containing materials. Mr. Van Orden has been qualified as an expert in State and Federal courts in numerous asbestos cases. He has testified about the development and use of scientific knowledge and techniques regarding the collection, analysis and measurement of airborne asbestos levels and governmental and industrial standards, past and present, for airborne asbestos and the history and current methodologies for electron microscopy. While at RJLG, Mr. Van Orden has directed quality assurance activities including registration and certification in national and state laboratory certification programs. He has participated in a number of large, national evaluations of ambient asbestos concentration studies and was a contributor to the asbestos review conducted by the Health Effects Institute-Asbestos Research (HEI-AR). Mr. Van Orden directed a study of earthquake effects on airborne asbestos concentrations, participated in EPA investigations into airborne asbestos concentrations in public buildings, and has conducted statistical analyses of numerous voluminous and complex data sets. Mr. Van Orden was the lead author of an American Society for Testing and Materials (ASTM) standard for the collection, preparation, and analysis of surface dusts for asbestos and was the principal author of a method to analyze airborne particles at mines and quarries. He is a member of the Society of Mining Engineers, the National Society of Professional Engineers, the Pennsylvania Society of Professional Engineers, American Society for Testing and Materials, American Society for Quality and the American Industrial Hygiene Association. He also is a registered Professional Engineer in the Commonwealth of Pennsylvania. He has published in peer review literature.

Steven R. Badger, PhD

Title	Senior Scientist, Director of Consulting Services & Corporate Quality
Location	Monroeville, PA
Degrees	PhD, Materials, Pennsylvania State University, 2006 MS, Geology, University of Toledo, 1996 BS, Geology, Clarion University of Pennsylvania, 1993
Focus Area Experience	Mr. Badger is a senior materials/engineer scientist at RJ Lee Group. His fields of expertise include analytical instrumentation, materials characterization, mineralogy, petrography, engineering chemistry, materials science and engineering, failure analysis, environmental sampling, disaster assessments and cement and concrete science and technology. Mr. Badger has performed comprehensive studies involving product identification of materials within buildings which involved mineralogical examinations of world-wide mineral deposits. His experience includes the conduct of research studies involving source apportionment of contaminants within close proximity of a Superfund site. Mr. Badger has directed field sampling, site investigations, forensic investigations, and research and development of analytical methodologies. Site investigations have involved the collection of air, water, soil, construction materials, particulate, organics, and other materials. He has also performed criminal forensic investigations including trace evidence analysis of soils. Mr. Badger has published in peer reviewed journals, presented internationally, and holds memberships in the ASM International, Association for Iron and Steel Technology, Geological Society of America and American Concrete Institute.

Gina C. Hobbs, MS

Title	Senior Scientist
Location	Monroeville, PA
Degrees	MS, Geology, University of Pittsburgh, 2002 BS, Chemical/Physical Oceanography; Minor, Geology, Stockton College of New Jersey, 1999
Focus Area Experience	Ms. Hobbs is a senior scientist at RJ Lee Group. She has extensive experience in materials characterization, including scanning electron microscopy, polarized light microcopy, thermal ionizing mass spectroscopy, inductively coupled plasma spectroscopy, and x-ray diffraction analysis. She is proficient in asbestos identification and quantification, particulate and material identification, concrete forensic investigations and failure analysis of a wide range of materials. Ms. Hobbs has conducted investigations related to asbestos including mine and quarry operations, asbestos mineral distribution, geologic mapping, and health and safety compliance matters. Ms. Hobbs has published in peer reviewed journals.

William H. Powers, Sr.

Title	Senior Scientist, Manager of Optical Microscopy Services
Location	Monroeville, PA
Degrees	MA, Geology, University of California, 1960 BA, Geology, Harvard University, 1957
Focus Area Experience	Mr. Powers is a senior scientist and manager of optical microscopy services at RJ Lee Group (RJLG). Mr. Powers has spent nearly 50 years in the practical application of optical petrography and mineralogy to a broad range of industrial, environmental and industrial hygiene matters. His experience includes the evaluation of tens of thousands of bulk material and soil samples for the identification and quantification of asbestos minerals and other mineral components. He also has significant experience in the evaluation of rock and mineral samples and refractory materials for the steel industry. Mr Powers has also conducted numerous forensic gunshot residue studies. Mr. Powers is an on-site laboratory assessor for asbestos certification under the National Voluntary Laboratory Accreditation Program (NVLAP), U.S. Department of Commerce. Prior to joining RJLG in 1987, Mr. Powers was a research engineer with US Steel Corporation for 27 years where he was involved with the evaluation of a broad range of materials using optical petrography techniques. Mr. Powers is a member of the Society of Mining Engineers. He has numerous communications to scientific meetings, papers in refereed journals and holds four patents.

Stephen A. Brown, MS

Title	Senior Scientist, Manager, Analytical Chemistry Department
Location	Monroeville, PA
Degrees	Post Graduate Studies, Geological Sciences, Ohio State University MS, Geological Sciences, Virginia Tech, 1993 BS, Geological Sciences, Virginia Tech, 1991

Mr. Brown is a senior scientist and manager of the analytical chemistry department at RJLG. He has over 15 years of experience in geology, mineralogy and crystallography. Mr. Brown has extensive experience in a variety of analytical techniques including X-ray diffraction, X-ray fluorescence, scanning electron microscopy, transmission electron microscopy, polarized light microscopy, inductively coupled plasma and inductively coupled plasma/mass spectrometry.

Mr. Brown has vast experience in the determination of crystalline silica in air and bulk samples and in qualitative and quantitative XRD for a broad range of industrial and environmental applications. Mr. Brown' technical experience includes the analysis of air, bulk, and soil samples for asbestos identification and quantification using a range of analytical techniques including polarized light microscopy, phase contrast microscopy and transmission electron microscopy.

Mr. Brown has published in peer reviewed literature. He is a member of Sigma Xi, the Mineralogy Society of America and the International Union of Crystallography.

Karen E. Harris, PhD

Title	Materials Scientist
Location	Monroeville, PA
Degrees	PhD, Materials Science and Engineering, State University of New York at Stony Brook, 1995 BS, Engineering Science, The Pennsylvania State University, 1990
Focus Area Experience	Dr. Harris is a materials scientist at RJ Lee Group. She has a broad engineering background with extensive experience in materials characterization, including scanning electron microscopy, transmission electron microscopy, fourier transform infrared spectroscopy, X-ray diffraction, orientation imaging microscopy, and ultrasonic testing. Dr. Harris is a materials scientist at RJ Lee Group. She has a broad engineering background with expertise in characterization of materials microstructures. Her research studies have included the evolution of microstructures of polycrystalline materials, particularly the relationship between changes in grain morphology and orientation. She has conducted research on microstructure of extruded NiAl, correlating texture evolution with recrystallization and grain growth using Orientation Imaging Microscopy, SEM imaging, and X-ray diffractometry. She is also experienced in TEM analysis to study evolution of microstructure in thin metal films. This work included relating the microscopic variations in the film texture to substrate topography using conical dark field imaging to image local variations in grain orientation. Microstructural changes in thin films under tensile stress and under solute diffusion were also examined. Dr. Harris has industrial experience as a metrology engineer, investigating fundamental causes of CMP-related defects using SEM and EDS analysis of blanket and patterned wafers, and as a consultant assisting clients in investigating processing issues, defect analysis, and service failures. She has also taught courses in engineering design and in materials and processes in manufacturing for undergraduate engineering programs. Dr. Harris has authored technical publications, numerous reports, conference presentations and software documentation.

Kimberly A. Allison-Campbell, MS

Title Location	Senior Analyst, Manager of Transmission Electron Microscopy Services Monroeville, PA
Degrees	MS, Geology & Materials Science, Michigan Technological University, 1980 BS, Geology, Edinboro University of Pennsylvania, 1978
Focus Area Experience	Ms. Allison-Campbell is a senior analyst and manager of the transmission electron microscopy services at RJ Lee Group. She has more than 20 years experience in electron and optical microscopy. Over the years she has analyzed and supervised the analysis of thousands of air, bulk and soil samples for the identification and quantification of asbestos minerals. Ms. Allison-Campbell is experienced in phase contrast microscopy, polarized light microscopy, building surveys, air monitoring, asbestos project design and supervision. Ms. Allison-Campbell was also involved in the design and implementation of a laboratory information management system for TEM analyses. Ms. Allison-Campbell is a member of the Environmental Information Association (formerly National Asbestos Council) and the Environmental Information Association of Pennsylvania. She has published peer reviewed articles.

Brian R. Strohmeier, PhD

Title	Senior Scientist
Location	Monroeville, PA
Degrees	MA, Business Leadership, Duquesne University, Pittsburgh, PA, 1999 PhD, Analytical Chemistry, University of Pittsburgh, Pittsburgh, PA, 1984 MS, Analytical Chemistry, Lehigh University, Bethlehem, PA, 1980 BS, Chemistry, Delaware Valley College of Science and Agriculture, Doylestown, PA, 1978 AA, Chemistry, Bucks County Community College, Newtown, PA, 1976
Focus Area Experience	Dr. Brian Strohmeier is a senior scientist at RJ Lee Group (RJLG) and has more than 20 years of research experience in the practical application of surface analytical techniques for industrial problem solving and product/process development. His technical expertise includes X-ray photoelectron spectroscopy (also known as electron spectroscopy for chemical analysis), Auger electron spectroscopy, secondary ion mass spectrometry, scanning electron microscopy/energy dispersive X-ray spectroscopy and other related analytical and spectroscopic techniques. His technical experience involves the study of adhesion, corrosion, oxidation, and wetting phenomena; chemical and plasma modification of material surfaces; and the surface characterization of metals, oxides, glass and fiberglass materials, ceramics, polymers, vacuum-deposited thin films, organic coatings and heterogeneous catalysts. Prior to joining RJLG, Dr. Strohmeier was employed in various research and managerial leadership positions at ION-TOF USA, Inc., the University of Pittsburgh, the Glass Technology Center of PPG Industries, Inc., and the Alcoa Technical Center. He holds one US patent and has more than forty publications and twenty conference presentations dealing with the surface characterization of various materials as well as six publications and six conference presentations dealing with leadership topics. He has also served as an expert witness in failure analysis cases. Dr. Strohmeier is an active member and has held various offices in the American Chemical Society, the American Vacuum Society, the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, the Society for Analytical Chemists of Pittsburgh, and the Spectroscopy Society of Pittsburgh.

Charles J. Kraisinger, PhD

Title	Senior Scientist
Location	Monroeville, PA
Degrees	PhD, Materials Science & Engineering, Pennsylvania State University, 2001 MS, Ceramic Science, Pennsylvania State University, 1996 BS, Metallurgical Engineering, Carnegie-Mellon University, 1985
Focus Area Experience	Dr. Kraisinger is a senior scientist with RJ Lee Group (RJLG) and specializes in materials science. He has 15 years experience with characterization techniques, structure and property relationships, and processing of a broad range of materials including alloy metals, electronic materials and advanced technical ceramics. Dr. Kraisinger is familiar with a broad range of materials characterization methods including transmission electron microscopy, scanning electron microscopy, mass spectrometry, X-ray diffraction, energy dispersive spectroscopy, profilometry, particle size characterization, and thermal and gravimetric techniques. He is involved in assessing the needs and appropriate implementation of laboratory testing services for environmental and materials applications and develops, evaluates and monitors the application of multi-analytical approaches to solve industrial problems. Dr. Kraisinger has extensive experience in the compilation and interpretation of voluminous and complex data sets derived from multi-analytical approach analyses in support of expert teams. He has also performed thermodynamic chemical equilibria calculations related to development of heat treatment procedures for one of the world's leading aircraft engine manufacturers. Previously, Dr. Kraisinger worked as a senior process metallurgist for Allegheny Ludlum Steel Corporation. Dr. Kraisinger is a member of the American Ceramic Society, Materials Research Society, and International Microelectronics and Packaging Society. He has published in peer review literature.