Karen I. Hall
Managing Director, Technology Transition Corporation Ltd

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Experience:

Summary of Qualifications:

Over fifteen years experience in engineering and program management. Executive level responsibilities in the fields of technical program management, marketing, business and association management and income development.

- Marketing
- business development
- technical program management
- commercialization
- advanced technologies
- clean energy

Summary of Experience:

2003-present Technology Transition Corporation, Ltd. Gateshead, UK

Mrs. Hall is the Managing Director of Technology Transition Corporation (TTC) Limited, a U.K. SME that works with utilities, industry, and government to commercialize clean energy and other environmentally friendly technologies. She helped form, and continues to manage, the United Kingdom Hydrogen Association – a diverse group of stakeholders interested in understanding and advancing the use of hydrogen energy in the UK. She also continues to lead the Technical activities of the National Hydrogen Association (USA) through an agreement with parent company, Technology Transition Corporation (see below). She leads consulting projects in the UK, including hydrogen safety training, consulting on codes, standards and regulations, technical feasibility studies, technology progress reports, and educational efforts. She has prepared and taught short-courses on hydrogen and fuel cells in the Northeast of England for middle school students for “Chemistry at Work” programmes with Durham University and the University of Teeside.

2006-present United Kingdom Hydrogen Association Gateshead, UK

Mrs. Hall is the Administrative Manager of the United Kingdom Hydrogen Association, an association dedicated to providing a strong national voice on hydrogen energy, engaging government, and driving the UK hydrogen economy.

She is responsible for day-to-day technical operations and special projects, including Safety, Standards and Regulations activities, Information Exchange, and Budget. As part of her duties, she plans and coordinates technical meetings, conferences, and workshops, and prepares and presents written and oral presentations on a variety of topics relevant to the hydrogen community, including policy needs, safety standards and regulations, and demonstration activities.

Mrs. Hall Chairs BSI PVE3/8, the UK National mirror committee for international standards on hydrogen technologies.

1997-2003 Technology Transition Corporation Washington, DC

Mrs. Hall is Vice President of Technology Transition Corporation (TTC), a firm that has proven success since 1986 in working with utilities, industry, and government to commercialize clean energy and other environmentally friendly technologies. She is presently responsible for technical operations of the business unit that manages the National Hydrogen Association (NHA).

As Vice President for Technical Operations of the NHA, she is responsible for day-to-day technical operations and special projects, including Codes and Standards activities, Information Exchange, and Budget. As part of her duties, she plans and coordinates technical meetings, conferences, and workshops, and prepares and presents written and oral presentations on a variety of topics relevant to the hydrogen community, including implementation of hydrogen clusters and corridors, policy needs, safety codes and standards, and demonstration activities. She has developed and conducted over a dozen workshops and short-courses on hydrogen safety for a variety of target audiences, including fleet owners and operators, public and private entities, government policy makers at the local, regional, and national levels, technical specialists dealing with hydrogen as a fuel, and the public.

She has previously served as the Technical Director of the United States Advanced Ceramics Association, a trade association of companies whose goal is to increase business opportunities for advanced ceramics for industrial applications.

She has been the Technical Coordinator to the Direct FuelCell Group, a former trade association of power providers and others interested in the commercial development of the Direct Carbonate Fuel Cell, currently under development by FuelCell Energy, Inc.

1989 - 1997 ARINC Inc. Annapolis, MD

ARINC Incorporated is a large US company with a corporate heritage of serving customers in aviation, government, and other industries since 1929. ARINC performs systems engineering, development, and integration for government and industry.

Technical areas of expertise include Pollution Prevention in the Department of Defense Acquisition Process, Aging Aircraft, Welding, Metallurgy, Corrosion Prevention and Control, Nondestructive Inspection, Documentation, Quality Assurance, Engineering Analysis, DT&E and OT&E support. Programs include the U.S. Air Force Aging Aircraft and Hidden Corrosion Program, SEAWOLF (SSN21) Fabrication Engineering Program, HSLA-130 RDT&E Program, and Level 1/Subsafe welding consumables receipt inspection/quality assurance system.

Mrs. Hall researched, prepared, and taught coursework in the area of pollution prevention for the acquisition process for U.S. Air Force and U.S. Army Program Managers. Topics included policy, regulations, and alternative processes and technologies. Coursework she developed emphasized requirements and options for reducing or eliminating hazardous materials or pollutants from industrial

processes, such as solvents and paints. She discussed policy and regulations which apply to the U.S. Air Force and U.S. Army, and methods for achieving pollution reduction goals, including nondestructive inspection techniques for aging aircraft which do not require depainting the aircraft prior to reaching the design life of the coating.

As lead Nondestructive Inspection (NDI) engineer for the ARINC project with the U.S. Air Force Aging Aircraft program, Mrs. Hall performed a comprehensive analysis of available NDI equipment and advanced technologies, including radiography, ultrasonics, eddy current, and uncommon techniques, exhibiting the potential to find hidden corrosion (between lap seams or under fastener heads) on C/KC-135, B-52, or E-3 (AWACS) aircraft. She worked closely with the U.S. Air Force to solve technical and training issues to identify and incorporate new methods and techniques to solve issues associated with aging aircraft.

She also provided evaluation and environmental failure analysis of mobile electronic warfare equipment, including U.S. Army TRAILBLAZER. She created the first shop fabrication and inspection manual for U.S. Army Vint Hill Station.

She also investigated alternatives to solvents containing ozone-depleting chemicals (ODCs) and EPA-17 hazardous materials for USAF avionics manufacturing and maintenance.

Education:

M.S. Environmental Science and Policy, the Johns Hopkins University (2000), USA
B.S. Welding Engineering, the Ohio State University (1989), USA

Mrs. Hall has held certification as ASNT Level III, for electromagnetic inspection, and received a certificate of Completion for Configuration Management from Naval Sea Systems Command in 1996.

Professional and Social Affiliations:

Mrs. Hall is a member of the Order of the Engineer. She is active in the development of safety codes and standards for hydrogen and fuel cell technologies with ISO/TC-197, BSI, the United Kingdom Hydrogen Association, the National Hydrogen Association, and SAE's Fuel Cell Codes and Standards Forum. She is also a member of the National Fire Protection Association (USA), and serves on two NFPA Technical Committees. She chairs the new BSI PVE 3 subcommittee on hydrogen technologies.