CURRICULUM VITAE
JOHN T. WHITTY, JR., P.E.

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John T. Whitty, Jr. is a licensed professional civil engineer (structural focus) (P.E.) with 30+ years of experience in the structural analysis and design of fall protection systems, commercial, manufacturing and industrial facilities, nuclear/fossil power plants and highway bridges & approach structures.

For the past 30 years John has been involved extensively in the field of fall protection and studied under the tutelage of Dr. J. Nigel Ellis of Dynamic Scientific Controls (DSC)/Ellis Fall Safety Solutions (EFSS). He is an OSHA Competent/Qualified person and a graduate of Dr. Ellis' courses on the principles and practices of Fall Hazard Control.

Mr. Whitty is a lead instructor for EFSS's fall protection training courses (Program Administrator, Authorized Person, Competent Person, Qualified Person, Train the Trainer, Authorized & Competent Rescuer and EM385-1-1). He has trained thousands of workers and supervisors in varying degrees of responsibility in fall protection over the course of his career.

Mr. Whitty serves as DSC/EFSS's engineer of record for any/all fall protection engineering design services produced.

He is a contributing author and editor of Dr. Ellis's book, "Introduction to Fall Protection – 5th Edition".

Mr. Whitty is an active member of the American National Standards Institute (ANSI) Z359 main committee on Fall Protection and a member of the following associated subcommittees:

- Z359.6 – Specification and Design of Active Fall Protection Systems
- Z359.14 – Self Retracting Devices (SRDs) (Subcommittee Vice Chair)
- Z359.18 – Connecting Devices
- Z359.19 – Rigid Rail Systems

Mr. Whitty is a member of the ANSI A10 Committee for Construction and Demolition Standards. His subcommittee interest and involvement are in the following subcommittees:

- A10.8 Scaffolds
- A10.32 Personal Fall Protection Used In Construction And Demolition Operations.
- A10.24 Roofing - Safety Requirements for Low-Sloped Roofs
- A10.33 Safety & Health Program Requirements for Multi-Employer Projects
- A10.34 Protection of the Public on or adjacent to Construction Sites
- A10.38 Basic Elements of an Employer's Program to Provide a Safe and Healthful Work Environment
- A1264 Walking Working Surfaces

Mr. Whitty is also an advising member (Dr. Ellis) of the ANSI A14 committee which has responsibility for development of Standards which govern the design, construction, testing, selection, care, and safe use of ladders which include the following subcommittees/areas of interest and focus:

- A14.2 American National Standard for Ladders- Portable Metal-Safety Requirements
- A14.3 American National Standard for Ladders- Fixed-Safety Requirements
- A14.4 American National Standard Safety Requirements for Job Made Wooden Ladders
- A14.5 American National Standard for Ladders- Portable Reinforced -Safety Requirements
- A14.7 American National Standard for Mobile Ladder Stands and Mobile Ladder Stand Platforms
- A14.8 American National Standard for Ladders- Portable Ladder Accessories- Safety Requirements

- A14.9 American National Standard Safety Requirements for Ceiling Mounted Disappearing Climbing Systems
- A14.11 American National Standard- Utility Step Stools

Mr. Whitty is a member of the American Society of Safety Professionals (ASSP).

He has been a past Exposition/Congress speaker for the ASSE/ASSP (American Society of Safety Engineers/Professionals).

He has been a past presenter at the NSC (National Safety Council) and the International Society for Fall Protection (ISFP).

Mr. Whitty has served as expert witness, plaintiff and defense, in numerous litigation cases (175+ cases to date) involving falls from height & same level from an engineering, site safety (construction & general industry), product specific liability, root cause analysis and discovery support perspective.

The main crux of his experience in fall protection has centered on the specification, structural engineering analysis, design and turnkey integration of personal fall arrest systems and components.

Indicative areas of expertise & or services performed have included but are not limited to the following focus areas:

- Root cause analysis
- Premise Liability
- OSHA 1910 General Industry
- OSHA 1926 Construction
- ANSI Z359 Fall Protection Code
- Multi-Employer Worksite Doctrine
- New York Labor Law –200, 240(1) and 241(6)
- New York Industrial Code Rule 23 - Protection in Construction, Demolition and Excavation Operations
- Contractual nondelegable duties, insurances, and indemnification
- Slips and trips (same level falls)
- Falls from elevation (including but not all encompassing) – hunting (tree stands), skylights, roofs, elevators, ladders, ironwork, stairs, machines, cranes, towers, trucks and flatbeds, floor openings, bridges, platforms, aerial lifts, scaffolding, commercial falls, equipment/machinery, billboards, façade access equipment, transmission/communication towers, wind turbines, monopoles, waste containers

- Analysis, design, specification, fabrication, delivery and erection of pre-engineered metal building systems and components (PEMBs)
- Structural collapse, fall protection equipment failure, falling objects
- Fall protection systems, product engineering design, product failure
- 1910 General Industry and 1926 Construction Site Safety Development of Fall Protection Plans, Policies and Procedures
- Fall Hazard Surveys, Audits, and Assessments
- Fall Protection Equipment specification and procurement
- Fall protection system installation/integration
- Fall protection equipment inspection
- Application of OSHA and ANSI standards to structural engineering theory
- Design and analysis of platforms, gangways, load arm systems and associated structural components
- Design, analysis and rating of walking working surfaces
- Design, analysis and certification of Anchorage Points
- Fixed and portable ladders/ladder systems
- Mobile ladder platforms/ladder stands
- Work positioning systems
- Anchorage points for façade access and window washing, rope descent systems (RDS)
- Façade access and suspended scaffolding & baskets, suspended scaffolding
- Analysis, Design and Testing of Horizontal Lifelines
- Analysis, Design and Testing of Vertical Lifelines
- Analysis, Design and Testing of Rigid Rail Systems
- Analysis, Design and Testing of Climbing Ladder Fall Arrest Systems (CLFAS)
- Analysis, Design and Testing of Personnel Netting Systems
- Application of fall protection rescue systems – self and assisted rescue
- Analysis and Design of new and existing structures to sustain the dynamic loadings associated with Fall Arrest Systems
- Analysis and Design of Fall Arrest System Drop Test Tower Structures
- Fall Protection Anchorage testing – static and dynamic testing protocols
- Arborist/Tree work systems – flip lines, climb lines, fall protection systems
- Program Administrator Fall Protection Training
- Authorized Person Fall Protection Training
- Competent Person Fall Protection Training - OSHA/ANSI, EM385
- Qualified Person in Fall Protection Training
- Authorized Rescuer Training
- Competent Rescuer Training
- Competent and Qualified Person Trainer
- Engineered System End User Training
- Train the trainer

- OSHA 1926/1910 Code Compliance Reviews – railings, fixed/portable ladders, platforms/stairways, accessways, etc.
- Fall Hazard Accident Investigation
- Litigation Support/Expert Witness Services

Mr. Whitty holds one patent related to fall protection devices – one involving skylight change outs for roof panels.

A second patent is in process of application and involves the use of a material conveyor for elevated access during roof material unloading.

EDUCATION:

- B.S. in Civil Engineering – May 1985, Virginia Military Institute (VMI), Lexington, VA

Graduate Study Coursework:

- Virginia Tech (Wastewater Treatment)
- University of Virginia (Advanced Steel Structures)

- High School – 1981, Lancaster High School – Lancaster VA

EXPERIENCE/WORK HISTORY:

Safety & Litigation Support Services, LLC, Ellis Fall Safety Solutions (2011 – Present)

- Provide safety consulting subject matter expertise (SME) in all areas of fall protection and select areas of focus in general industry and construction site construction.
- Provide litigation support and expert witness services with focus areas in pertinent OSHA regulations, ANSI Z359 voluntary consensus standards, select Building Code provisions, slips/trips/falls, falling objects, New York Labor Law and New York Industrial Code provisions.

Industrial TurnAround Corporation (ITAC) (1999 – Present)

- Sr. Vice President – Engineering, Business Development, Onsite Services, Fall Protection and Pre Engineered Metal Buildings – Single Point Accountability for profit and loss (P&L) for the firm's engineering, onsite services, business development and fall protection/pre engineered metal building niche business units.
- Vice President of Engineering and Projects – Single Point Accountability for profit and loss (P&L) for the firm's engineering, design and project management staff of over 135+

engineering, design and project management professionals for the successful preconstruction and execution of engineering and design/build projects for clients in manufacturing and industrial environments.

- Vice President of Engineering and Specialty Services – Single Point Accountability for profit and loss (P&L) for the firm's engineering staff of 135+ engineering & design professionals as well as specialty service nice business units in custom machinery solutions, fall protection, pre-engineered metal building structures (PEMBs) and power systems services.
- Director of Projects – responsible for the company's group of project management professionals charged with the administration of scope, budget and schedule for engineering, design/build and specialty service niche related projects.
- Sr. Project Manager – Administer scope, budget and schedule for the timely/safe execution of manufacturing/industrial/commercial projects within budget and schedule constraints.
- Business Development Manager – Provide project scopes/cost estimates and proposals for client consideration.
- Division Director – ITAC Fall Protection Services – responsible for the sales and operational focus for a team of 20+ individuals engaged in the turnkey integration of fall protection initiatives.
- Civil/Structural/Architectural Department Manager - Managed a group of design and or project management professionals. Provided technical guidance to department personnel. Participated in discipline specific business development as well as manpower/resource planning and budgeting of projects. Responsible for the technical accuracy of the product produced within the department.

Alliance Engineering (1997-1999)

- Civil/Structural/Architectural Group – Department Manager- Managed a group of design and or project management professionals. Provided technical guidance to department personnel. Participated in discipline specific business development as well as manpower/resource planning and budgeting of projects. Responsible for the technical accuracy of the product produced within the department.

Reynolds Metals Company (1995-1997)

- Corporate Engineering - Lead Structural Engineer - Provided structural engineering services for modifications, additions, renovations/retrofits, and new construction for manufacturing and production facilities. Capital and O&M type projects. Prepared calculations, specifications, technical reports and engineering drawings. Rigging plan arrangements, load rigging lift plans, selection and calculations of rigging components,

i.e., lifting/rigging beams, monorails, lifting lugs, fastening systems such as expansion anchors, drop in anchors, adhesive/chemical anchors, etc.

- Qualified Person in Fall Protection – structural engineering lead for any/all fall protection related initiatives throughout the company's operating plants and divisions.

Virginia Power/North Carolina Power (1990-1994)

- Nuclear Engineering Services Group - Civil/Structural/Architectural - Lead Structural Engineer - Provided structural/civil engineering for modifications, additions, renovations/retrofits and new construction to Virginia Power/North Carolina Powers' nuclear and fossil fuel power stations. Capital and O&M type projects. Prepared engineering calculations, specifications, design change packages (DCPs) technical reports, and drawings. NUREG 0612 heavy loads rigging calculations for rigging and components.

Virginia Department of Transportation, Structures & Bridge Division (1985-1990)

- Structures and Bridge Engineer - Designed/detailed structural plans for the construction of highway bridges & approach structures of various complexities. Bridges were single/multiple spans, steel/concrete construction, rolled beams, plate girders, prestressed concrete beams, composite & non composite construction.

Virginia Air National Guard

- Air National Guard – past Member of the 192nd Tactical Fighter Group in Sandston, VA. Prime Beef Officer (Captain) – (Prime Base Emergency Engineering Force). Provided civil engineering support and assistance for the bed down of personnel and aircraft inclusive of airbase site surveys, establishing bare base camps and operations and utility system installation with the ability to mobilize in quick order worldwide.

<u>LICENSES/AFFILIATIONS:</u>

Mr. Whitty is a past member of the NCEES (National Counsel of Engineering Examiners) and is currently licensed as a professional engineer in 15 states:

- New York – license #78001
- New Jersey – license #GE44655
- Pennsylvania – license #062857
- Delaware – license #11658
- Maryland – license #23199
- Virginia– license #21258

- West Virginia – license #22481 (inactive)
- North Carolina– license #32489
- Alabama– license #27996
- Florida– license #53443 (inactive)
- Wisconsin– license #E-41530
- Tennessee– license #00114719
- Arizona– license #64505
- Michigan– license #6201064739
- Minnesota– license #54497

BOOKS/CHAPTERS AUTHORED

J. Nigel Ellis, “Introduction to Fall Protection – 4th Edition” – Chapter 7, Engineering of Horizontal Lifeline Fall Arrest Systems

ADDITIONAL TRAINING:

OSHA 10 – (pending)
OSHA 30 – (pending)