STATE OF THE STATE

DON COOK
PRINCIPAL SAFETY ENGINEER
PRESSURE VESSEL UNIT
TOPICS COVERED

- SAFETY ORDER RE-WRITE
- PERMIT FEE INCREASE
- VALUE OF INSPECTION
- INSPECTION REPORTS
- ASME
- NATIONAL BOARD ITEMS
SAFETY ORDER RE-WRITE

• HAVE HAD TWO ADVISORY COMMITTEE MEETINGS.

• SPLIT INTO TWO GROUPS, ONE FOR BOILERS AND AIR TANKS, THE OTHER FOCUSED ON LPG.

• WILL ADDRESS TITLE 8 SUBCHAPTERS 1 & 2
SAFETY ORDER RE-WRITE

• ADOPT NBIC FOR SUBCHAPTERS 1 & 2
• ADOPT CSD-1 & NFPA 85 FOR BOILERS
• ADOPT NFPA 58 2014 EDITION
• USE NBIC FOR HISTORICAL BOILERS
• POSSIBLE USE NATIONAL STANDARDS FOR CNG/LNG & NH3
SAFETY ORDER RE-WRITE

• REQUIRE VR STAMP FOR SAFETY VALVE REPAIR

• ALLOW OILFIELD STEAM GENERATORS TO OPERATE FOR EXTENDED INTERVAL BETWEEN INTERNAL INSPECTIONS AND UPDATE CONTROL REQUIREMENTS

• MULTIPLE 9 ½ HP IN COMMON HEADER REQUIRE INSPECTION?

• ATTENDANCE REQUIREMENTS?
SAFETY ORDER RE-WRITE

• ALLOW MULTIPORT VALVES FOR UNDERGROUND LPG
• TRANSPORT TANKS USED AS TEMPORARY STORAGE
• TIME FRAME FOR SAFETY VALVE REPLACEMENT
• FARM CART/WEED BURNERS
SAFETY ORDER RE-WRITE

- INTERNAL INSPECTION OF AIR TANKS GREATER THAN 36”
- WORDING OF AUTO/MANUAL DRAIN
- SCHEDULE 80 NIPPLE
- OIL SEPARATOR REQUIREMENT
STATE SERIAL #’S

• IN 2018, WILL NEED TO CHANGE FORMAT OF STATE SERIAL #’S TO ADDRESS 1918 STATE #’S
• WILL RE-ARRANGE EXISTING FORMAT
• A18-123456, B18-012345 & L18-001234 FOR DATA ENTRY EXAMPLES
• 18-123456, 18-12345, 18-1234, 18-123 FOR STAMPING EXAMPLES
• WON’T NEED TO MODIFY FILE SIZE, ONLY FORMAT
PERMIT FEE INCREASE

• GOVERNOR’S BUDGET IS CHANGING HOW DOSH UNIT SET FEES
• INCLUDES ELEVATORS, AMUSEMENT RIDES, CRANE AND PRESSURE VESSELS
• ELIMINATES FIXED $15 PERMIT FEE SET IN LABOR CODE
ASME CHANGES

- HARD COPIES MAY CEASE IN 2019 OR 2021
- DOING RESEARCH ON HIGH TEMPERATURE MATERIALS
- NEW SECTION VII PUBLISHED IN 2015
- WORKING ON NEW SECTION VI
- MODERNIZING SECTION I
- MOVING STRESS TABLES FROM SECTION IV TO SECTION II
ASME CHANGES

• SECTION V IS BEING REORGANIZED ALSO
• EDDY CURRENT ARRAY FOR SURFACE EXAM PROVIDE DISPLAY AND DATA
• MICROWAVE EXAM OF HDPE
• ADDING THERMAL IMAGING TO SECTION V
ASME CHANGES

• SECTION VIII IS STILL WORKING ON HARMONIZING THE THREE SECTIONS THROUGH “COMMON RULES”
• PROPOSAL TO ELIMINATE THE “6 INCH” RULE AND OTHER ITEMS IN THE SCOPE SECTION
• DIVISION 2, CLASS 1 VESSELS TO HAVE DESIGN MARGIN REDUCED FROM 3.5 TO 3.0
ASME CHANGES

• SECTION IX DENIED A CODE CASE FOR AWS ACCREDITATION

• NEW CONCEPT OF “ANDE” (ASME NDE) WILL ALLOW NDE OPERATORS TO HAVE NATIONAL CERTIFICATION AND TRAINING

• BETA TESTING LEVEL 3 EXAM, TEST BLOCK SPECIMEN CREATED

• MAY LEAVE ANSI SNT 1A BEHIND

• PWHT SOAK BAND WIDTH IS CHANGING
ASME CHANGES

• 2015 SECTION XII AND NBIC BEING ADOPTED BY DOT
• HOOP WRAPPED TANKERS WILL HAVE SECTION XII METAL AND SECTION X WRAP
• NEW SECTION XIII COMMITTEE CHARTER ON PRESSURE RELIEF DEVICES IN THE ASME MANAGEMENT APPROVAL PROCESS
• MODULAR BOILER CLEARANCE
NATIONAL BOARD

- NEW SAFETY VALVE “TEST ONLY” PROGRAM BEING ESTABLISH “T/O”
- SIMILAR TO VR SYSTEM BUT CAN’T REPAIR
- GOOD FOR OILFIELDS
- CONTINUING EDUCATION EVERY YEAR
- HAVE “IS” AND “NEW CONSTRUCTION” COMMISSIONS
- ‘R’ ENDORSEMENT, NO MORE ‘A’
VALUE OF INSPECTION?

• QUESTION WAS RAISED IN CANADA
• NO INSPECTION, GOVERNMENT, INSURANCE, OWNER/USER OR THIRD PARTY
• WHAT METRICS ARE THERE THAT CAN BE MEASURED?
• THE QUESTION STUMPED ME
VALUE OF INSPECTION?

• ASME & NB ADDED THIRD PARTY (NON-TRADITIONAL) INSPECTION AGENCIES
• PRE-1992 ONLY JURISDICTIONS & INSURANCE COMPANIES
• BOTH HAD PUBLIC SAFETY OR FINANCIAL INTEREST IN PREVENTING ACCIDENTS
VALUE OF INSPECTION?

• GLOBALIZATION HAS CHANGED INSPECTION DUE TO WTO PRINCIPALS
• CURRENTLY ONLY 4 INSURANCE, 3 US, 9 CANADIAN & 12 THIRD PARTY AGENCIES
LATIN AMERICA

• PRESENTATION MADE BY MARK MASTERS OF HSB GLOBAL STANDARDS
• MOST COUNTRIES USE “EQUIVALENT TO CODE”
• SO VESSELS AREN’T USUALLY ASME STAMPED
LATIN AMERICA

• CLAIM A 30% COST SAVINGS
• COST OF AIA INSPECTION NOT 30% SO WHERE ARE SAVINGS MADE
• WHEN PROBLEMS ARE FOUND, 80% OF DESIGN AND 70% MATERIALS
• INCORRECT MATERIALS (WELDED VS SEAMLESS PIPE) OR EE IS PRESSURED BY MANAGEMENT TO ACCEPT
• WPS NOT QUALIFIED
LATIN AMERICA

• HSB WILL ACCEPT VESSELS AS "EQUIVALENT TO CODE" AND PROVIDE DOCUMENTATION
• ONLY IF TRULY "EQUIVALENT" AND THEY PROVIDE INSPECTION
• MOST ENGINEERS VERY FAMILIAR WITH ASME CODE REQUIREMENTS
LATIN AMERICA

• COUNTRIES WITH OIL INDUSTRY MORE INCLINED TO COMPLY
• NO REAL EXPORT MARKET, UNLIKE CHINA
• ARGENTINA MAY ADOPT ASME
• PROBLEM IS COST OF ASME ACCREDITATION
• NBIC WOULD BE MORE ADOPTABLE (IS AVAILABLE IN SPANISH)
• NO REAL REPAIR/ALTERATION STANDARD
QUESTIONS?