

# 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 & NH<sub>3</sub>

# 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 MULTIPOINT 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?