



GENERAL INFORMATION ABOUT **RETROFIT'TING OF** SPHERICAL VESSEL





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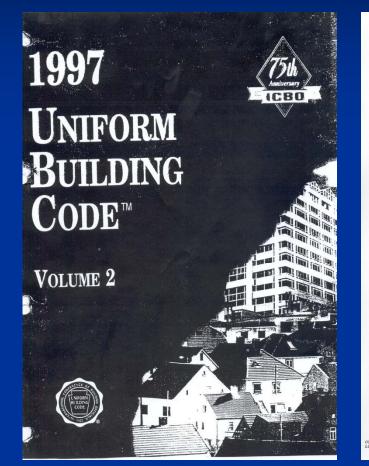




1. DESIGN CODE AND STANDARD FOR SPHERICAL VESSEL







ASME BOILER AND PRESSURE VESSEL CODE AN INTERNATIONAL CODE

RULES FOR CONSTRUCTION OF PRESSURE VESSELS

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS New York, New York

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PRESSURE VESSEL COMMITTEE SUBCOMMITTEE ON PRESSURE VESSELS

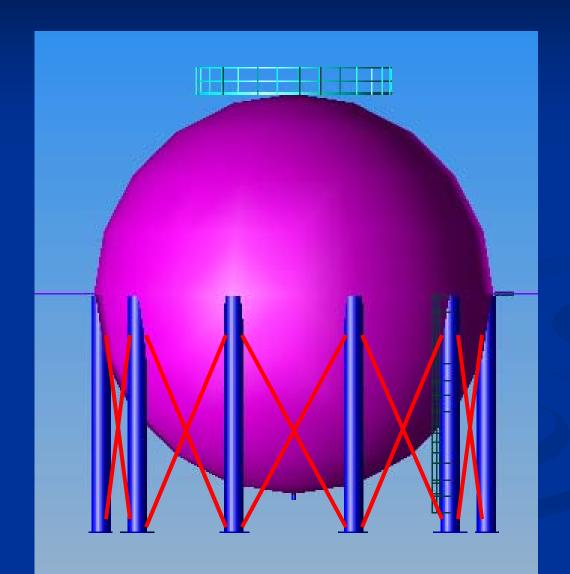




2- DIFFERENT TYPE OF SPHERICAL VESSEL







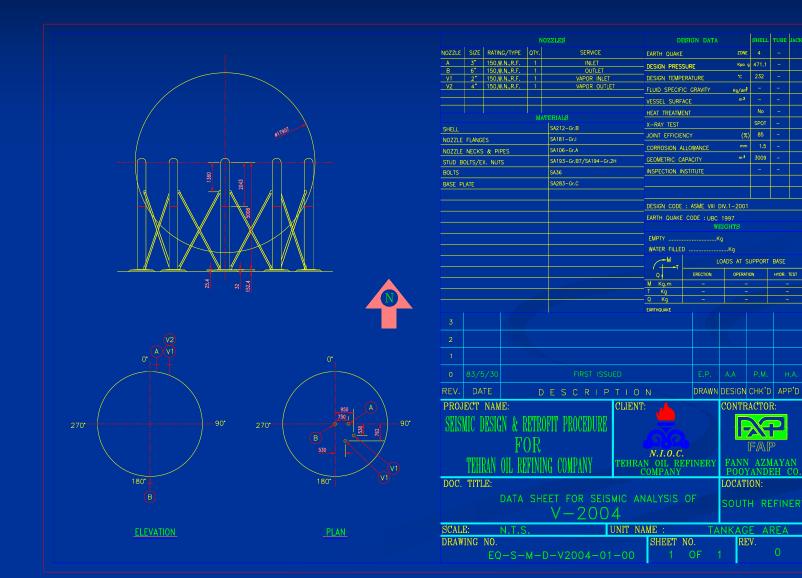




3- SAMPLE DATA SHEET OF SPHERICAL VESSEL





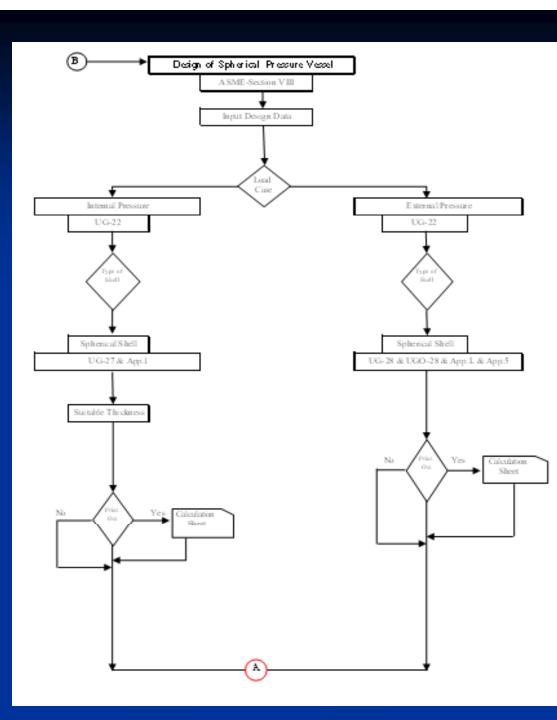




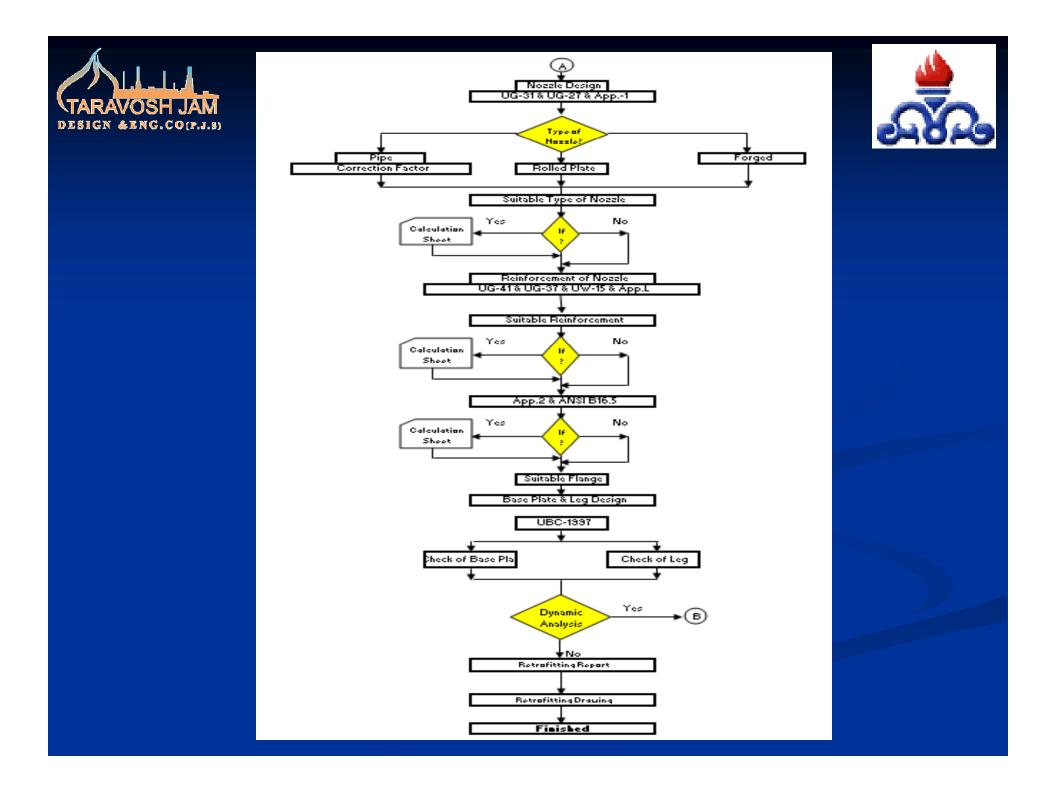


4- DESIGN FLOWCHART OF SPHERICAL VESSEL













5- DIFFERENT TYPE OF RETROFITTING OF SPHERICAL VESSEL





TYPICAL FAILURE IN SPHERICAL PRESSURE VESSELS :

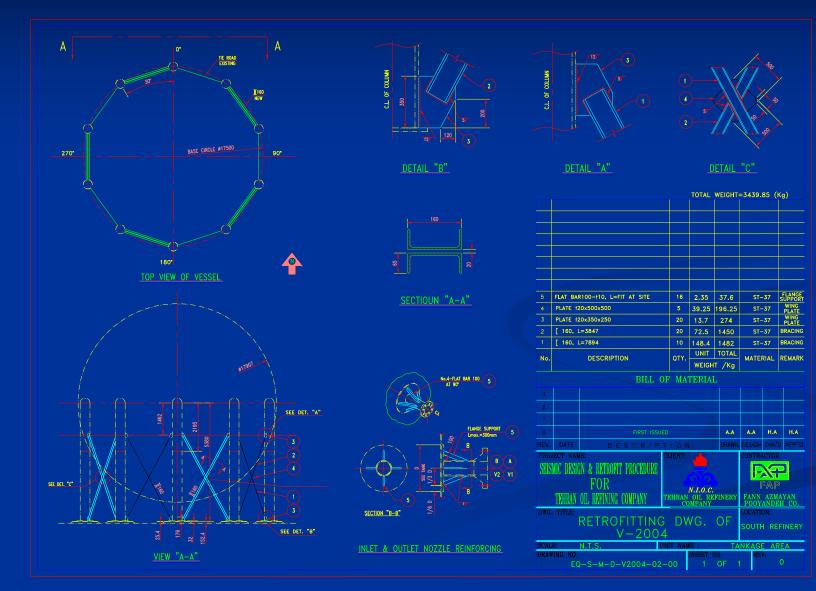
1- BASE PLATE FAILURE IN SPHERICAL PRESSURE VESSELS.

2- COLUMN FAILURE IN SPHERICAL PRESSURE VESSELS.

3- ANCHOR BOLT'S FAILURE IN SPHERICAL PRESSURE VESSELS.











Foundation Retrofitting Drawing

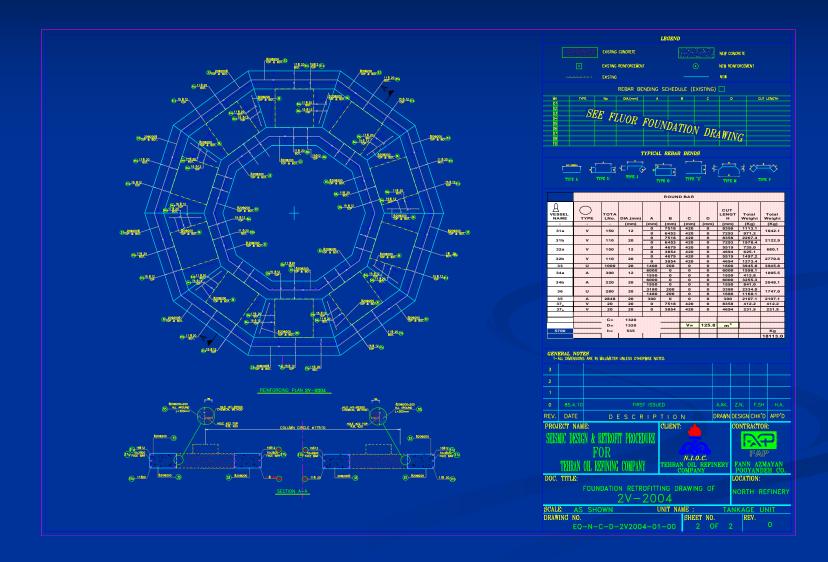
















RESULT:

1- DECREASING THE OVERTURNING MOMENT FOR PRESSURE VESSELS BY ADDING BRACING & COLUMN.

2- USE EXTRA ANCHOR BOLTS IN NEW LOCATION.

3- INCREASING THE THICKNESS OF BASE PLATE BY MULTI LAYERS PLATE AND PLUG WELDS FOR PRESSURE VESSELS.





THE END