video.

Ans 1 (arryoves: This involves water and impurities being Carried with Steam 11 includes

Priming: occurs when steam is produced with water droplets due to hard water, resulting in wet steam Cawa include high water levels.

Foaming: Persistent foam forms on the water Surface, usually due to oily impurities - Anti-foaming agents and Coagulanti can help prevent this issue.

- a. Scale and Sludge Formation:
 - scale: A hard precipitate that forms on boiler walls from dissolved salts as water evaporates. It decreases heat transfer increases fuel Consumption.
 - ·sludge: A loose, slimy precipitate that form in cooler area of the boiler like Scale, sludge impedes performance requires more fuel, and Con lead to chocked pipes

3. Caustic Embrittlement: Caused by Sodium Carbonate in water, which transforms into Sodium hydroxide and corroder boiler material, leading to brittleness, preventative measures include using Soft water.

and a space complete indicate

Summary:

- Boiler water Requirements: have a balanced pt, low hardness, and Controlled alkalinity to avoid boiler troubles.
- -> effecte of priming and foaming: There issues can lead to water level misjudgment, increases fuel use.
- -) Scale and sludge Hazards: Both reduces boiler ethicency increase operating costs and pose Safety visks in high pressure.

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