Gujarat Pollution Treatment Chemicals

Creating Innovative Vision

About US

We are One Of the fast growing and fast improving Company in the field of manufacturing Of Water Treatment Chemicals ever Since we Established in 2011 we have mastered in manufacturing of water treatment Chemicals as per customer requirement we multiproduct offering quality and services to our customer along with wide range of cooling water, boiler water, ETP water & waste water, and other formulated products.

Total Quality Policy

G.P.T.C is committed to total customer satisfaction by delivering quality products on time. all levels of the organization are dedicated to the process of meeting or exceeding customer's requirements In additions we are committed to comply with requirements and work to continually improve the effectiveness of the quality management system. we will have a framework for establishing and reviewing quality objectives. it willbe communicated within the organization and reviewed for suitability.

Endless Research

GPTC world class R&D Center Established in 2011 has state of the art facilities and has delivere pioneering results in water treatment technology. Over the past two decades GPTC R&D center has Developed over Thousand of the Formulations of chemicals and polymers responding to the needs of indian industry with a vision of evolving into a leader as technology provider through excellence in management of knowledge, technology and innovation

Technology & Services

GPTC offers services in the field of research & development the clientele includes TEXTILE PRODUCER INDUSTRIES PRODUCING STEEL,POWER PLANT, Industries PHARMA INDUSTRIES and MULTINATIONAL COMPANIES GPTC is looking forward to sharing its expertise worldwide

WHY DO WE NEED DETOX WATER MANAGEMENT ?

Water is one of the absolute necessities for life on this earth. Without water, no human, animal or plant could survive. It is nature's universal solvent. Innumerable and varied uses of water to humanity are essential for our economy, as well as enjoyment of our life.

In industrial and commercial institutions, water plays a major role in the manufacturing activities and in controlling our internal environment. The equipment used, such as boilers and cooling towers must be maintained to assure long life and efficient operation. Proper water management is a part of good maintenance practices.

Naturally occurring impurities in the water used can leave the equipment venerable to fouling, scale formation, corrosion or rusting and growth of micro-organisms. Left uncontrolled, any of these conditions can cause a loss of efficiency and shorten equipment life. If a heating or cooling system fails, often the entire plant or facility has to be shut down and suffer the resulting consequences. Lack of attention to water-related problems is often the cause of failures that cost time, money production and aggravation.

PROBLEMS CAUSED BY SCALING & FOULING

- Reduced capacity
- Product loss due to ineffective operation
- Unexpected equipment shutdown
- Increased water usage and pumping costs
- Higher maintenance costs
- Shortened equipment life
- Under-deposits corrosion
- Poor corrosion inhibitor performance

DETOX CONTROL OF SCALE AND FOULING

The control of scaling and fouling is part of a complete cooling water treatment program, which cannot approached without considering the overall program. We control foulants and scale in two ways.

1. Control the level of scaling and fouling related water contaminants:

This is done by several means, depending on the nature of the foulants in question. The primary means of limiting contaminants in a cooling water system is by a continuous proportional system bleed. By bleeding the system, you remove the concentrated foulants, which cause scaling, or fouling. Controlled bleed off provides a stable system so that chemical treatment can be effective.

A supplemental method limiting the concentration of water borne contaminants is through mechanical means such as ion exchange or side-steam filtration. Ion exchange is used where large amounts of hardness and dissolved materials are present in the makeup water. Side-stream filtration is used to remove suspended matter such as mud, silt, and microbial matter. Removing suspended matter helps the overall water management program's success by eliminating deposit-causing substances, as well as chemical treatment products to work more effectively.

2. Addition of chemical antifoulants and scale control agents:

Every cooling water system requires chemicals to prevent fouling and scale formation. All multifunctional cooling water treatment products contain a variety of materials to prevent scale, from polymeric dispersants to complex organic antiscalants. The proportionate addition of these products allows you to operate cooling systems at much higher cycles of concentration. This results in water saving for the customer and more efficient systems.

BOILERS

A boiler is essentially a pressure vessel into which water is fed and converted to steam by the application of heat, usually provided by oil, natural gas, coal, or wood. With the exception of microbial problems, boilers are subject to the same problems as cooling systems face, that is, corrosion and scale formation. However, in a boiler, the conditions are sometimes much more intense since the rate of heat transfer in an ordinary boiler is much higher than in a cooling system. The entire boiler process is concerned with the transfer of heat through the conversion of water to steam.

BOILER TYPE

There are basically two types of boilers, both of which are manufactured in different styles and sizes.

FIRETUBE BOILER

In a fire-tube boiler, the fire or hot gases are directed through the inside of a large number of tubes within the boiler shell. The modern fire-tube boiler is a very efficient unit, with maximum heat transfer per square feet in mind.

These high efficiency boilers are not as tolerant of waterside deposits as less efficient units. Therefore, more attention than ever before must be given to the water treatment given for these units.

DETOX CHEMICAL TREATMENTS FOR BOILER

The feedwater is composed of makeup water (usually city water from outside boiler room/ process) and condensate (condensed steam returning to the boiler). The feedwater normally contains impurities, which can cause deposits and other related problems inside the boiler. Common impurities in water include alkalinity, silica, iron, dissolved oxygen and calcium and magnesium (hardness). Blowdown, a periodic or continuous water removal process, is used to limit the concentration of impurities in boiler water and to control the buildup of dissolved solid levels in the boiler. Blowdown is essential in addition to DETOX chemical treatments.

PROBLEMS AFFECTING STEAM GENERATING SYSTEMS

The problems associated with water in steam generating systems are classified under these categories.

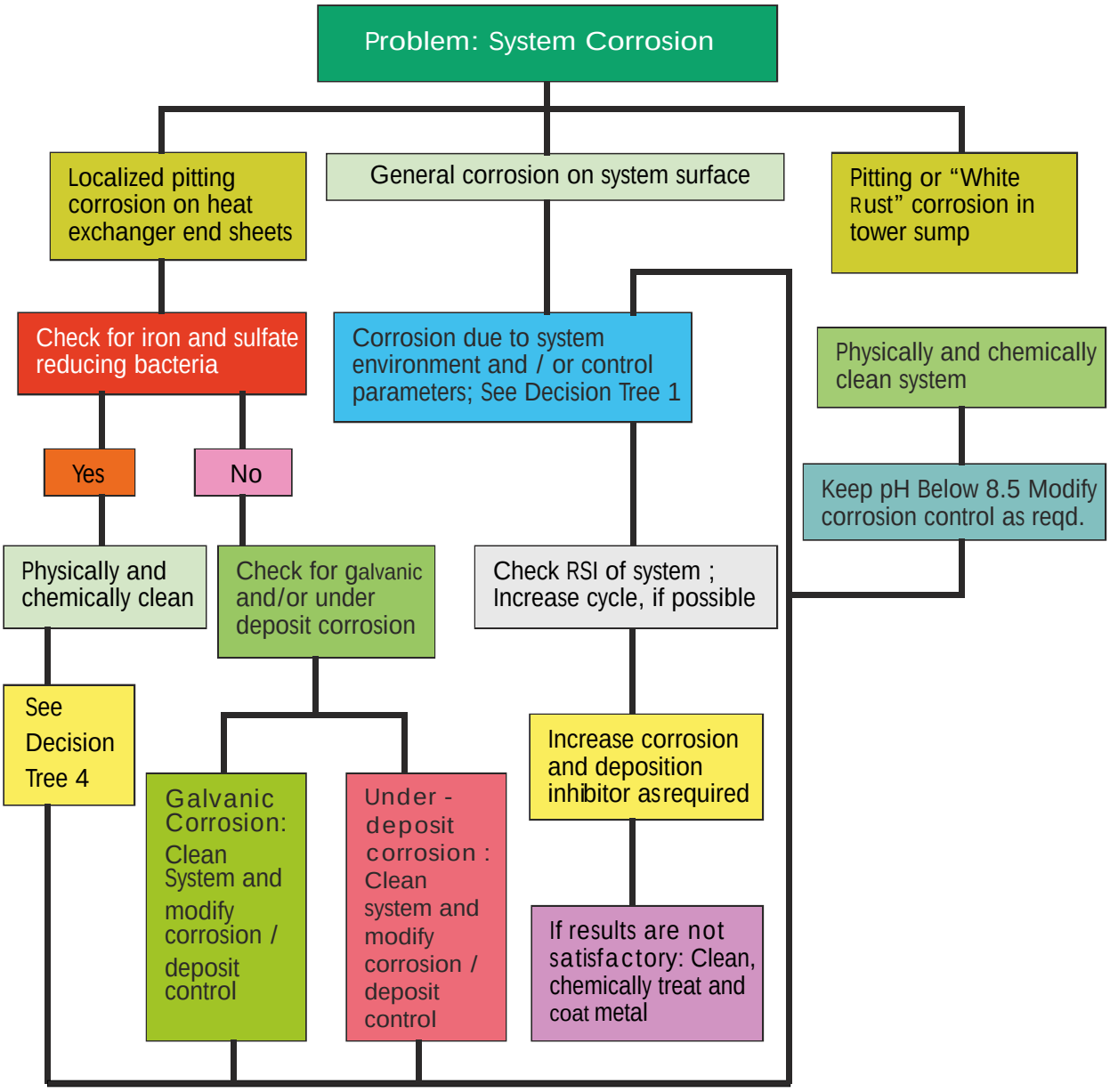
- *Corrosion.*
- *Scaling and deposition.*
- *Carryover.*

Any competent water treatment program can control these three problems.

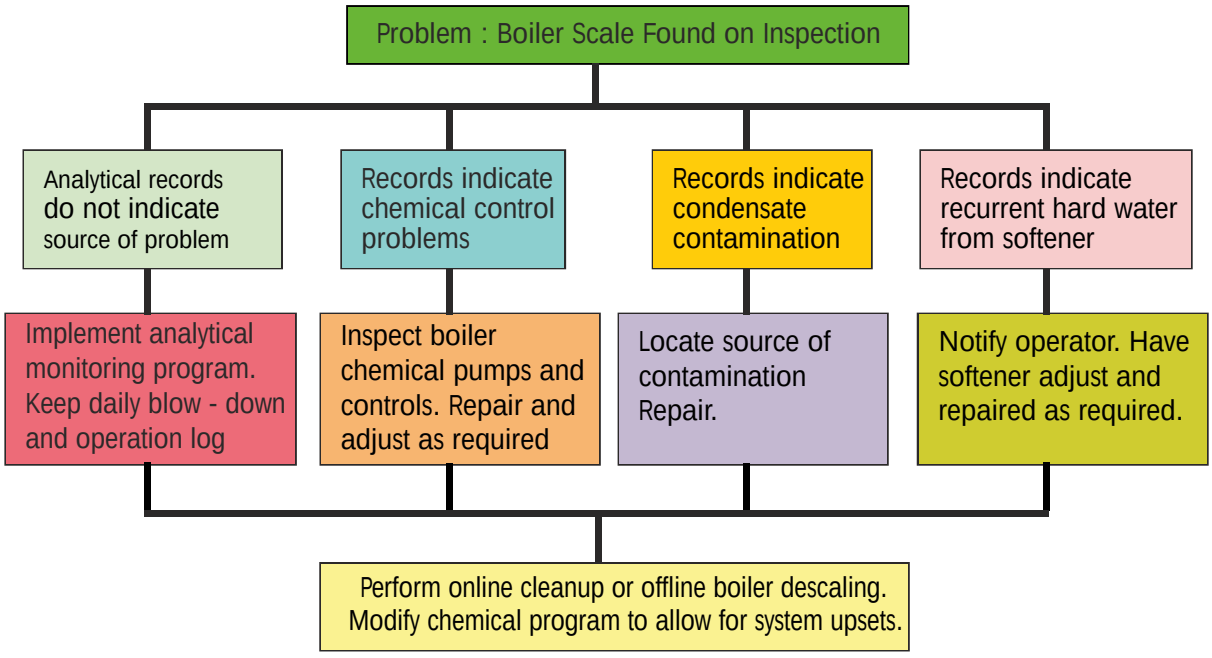
SCALE CONTROL

As water heats and is converted into steam, contaminants brought into the system with makeup water are left behind in the boiler. The boiler acts like a distillation unit, taking pure water out as steam and leaving behind the minerals and other contaminants in the boiler. Scale forms as a result of the precipitation of normally soluble solids from solution because of heat that makes them become insoluble. Some examples of scale are calcium carbonate, calcium sulphate, and calcium silicate.

COOLING TOWER OPERATION GUIDE



BOILER OPERATION GUIDE



BRANDED PRODUCTS

GPTC specialized Facilities and Scientific Resources have Developed and Manufacture Tailored made products.

DETOX Range of Descaling Additives

Off & On Line Descalent

Special Descalent For Copper, MS, Alloys

Passivation Additives

Special Cleaner For Burn-out & AHU

DETOX Range of R.O. Additives

Anti-Scalent Additives

Descalent Additives

Special Additives For High Silica

DETOX Range of Boiler Water Additives

Anti-Scalent & Sludge Conditioner

Sulphite & Hydrazine Based Oxygen Scavenger

Morpholine Based pH Booster

Vapour Phase Corrosion Inhibitors

DETOX Range of Cooling Water Additives

Anti Scalent & Corrosion Inhibitors

Oxidizing & Non-Oxidizing Micro biocides

Organic Phosphonate Based Polymers

Dispersent & Bio-Dispersent

DETOX Range of ETP Additives

Bio-Culture

Activated Bio-Mass

Sludge Settling Additives

Silicon Defomer

DETOX Range Specialty Products*

All Types Of Water Testing Kit

Digital TDS & Conductivity Meter

All Types Of Filter Media & Activated Carbon

Fuel additives for Liquid & Solid fuels

Lab Instrument.

DETOX BRANDED PRODUCT

COOLING WATER TREATMENT ADDITIVES

PRODUCT	APPLICATIONS
DETOX - 1081	Scale / corrosion inhibitor.
DETOX - 1082	Scale / corrosion inhibitor.
DETOX - 1083 (I)	Oxidizing Microbiocide
DETOX - 1083 (II)	Non-oxidizing microbiocide
DETOX - 1083 (III)	Broad spectrum microbiocide
DETOX - 1084	Scale / corrosion inhibitor (polymer based)
DETOX - 1085 (R)	Alkalinity disperser
DETOX - 1086	Bio-dispersant
DETOX - 1087	Dispersant
DETOX - 1088	Corrosion inhibitor (oc)
DETOX - 1089	Corrosion inhibitor (cc)
DETOX - 1089 (I)	Corrosion inhibitor (cc)

DESCALANT / PASSIVATORS

DETOX - 1281	OFF-LINE Descaling
DETOX - 1282	ON-LINE Descaling
DETOX - 1283	Boiler boil-cut
DETOX - 1284	Specialty (Fills/resin)
DETOX - 1285	Passivation compound
DETOX - 1288	Specialty cleaning
DETOX - 1289	Kleen for AHU/Air washers, Ac,

FUEL ADDITIVE

DETOX - 1581	Fire side chemical
DETOX - 1582	Clinker & shoot cleaner
DETOX - 1583	Fuel additive for LDO & FO

Authorized Dealer

BOILER WATER TREATMENT ADDITIVES

PRODUCT	APPLICATIONS
DETOX - 1180	Scale Inhibitor
DETOX - 1181	Sludge conditioner.
DETOX - 1182	Sludge conditioner.
DETOX - 1183	Dispersant
DETOX - 1184	pH Booster
DETOX - 1185	Dispersant For High T.A
DETOX - 1186	Anti Foaming Compound
DETOX - 1187 (I)	Oxygen scavenger
DETOX - 1187 (II)	Hydrazine based scavenger
DETOX - 1188	Deha Based scavenger
DETOX - 1189	Condensate Corrosion Inhibitor

R. O. WATER ADDITIVE

DETOX - 1381	Anti-Scalent additive
DETOX - 1382	Descalent additive
DETOX - 1383	Descalent additive

EFFLUENT TREATMENT ADDITIVE

DETOX - 1481	Coagulants additive
DETOX - 1482	Bio culture additive
DETOX - 1483	Settling additive
DETOX - 1484	Silicon Defomer
DETOX - 1485	Cationic Polyelectrolyte
DETOX - 1486	Anionic Polyelectrolyte

TESTING KIT

DETOX - 1680	Total Hardness
DETOX - 1681	P. Alkanity
DETOX - 1682	M. Alkanity
DETOX - 1683	Chloride
DETOX - 1684	Sulphite
DETOX - 1685	Phosphate
DETOX - 1686	Silica
DETOX - 1687	Corrosion Coupon

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