PROCUREMENT TECHNOLOGY
REQUEST FOR QUOTATION (RFQ)

INTELLIGENT RELIABILITY TECHNOLOGY™

DESIGN INTENT
Deriving component functionalities and key performance factors from system logic

DESIGN INTENT PROFILE
A unique operating cycle connecting system and component intent

ANALYTICAL DNA
DESIGN LIMIT **N**ATURE OF FAILURE **A**CTUAL LIFE

Creating the analytical models to identify the key stresses and fix the product weaknesses in the early stages of development. The analytical limits lead to the type and location of instrumentation to set up and calibrate the DNA Generators

REAL-TIME DNA *with* KXC DNA GENERATORS™
Generating experimental DNA Maps
All-in-One qualification solution accounting for all stress interactions to replicate the real world operating complexity

PRODUCT DNA LIBRARY
KXC maps the Product DNA for the development baseline, engineering changes, new suppliers, cost reduction initiatives and production parts to map the DNA Library. Field failures will be captured by the DNA Library to rapidly determine the root cause with a systematic and deterministic approach

OUTPUT

SPECIFICATION LASTENHEFT (SOR)
"Statement of Operational Requirements"

FACTORY ACCEPTANCE TEST PROTOCOLS

DESIGN RELIABILITY CRITERIA

LIFE EXPECTANCY OF CRITICAL COMPONENTS

LIFE EXPECTANCY OF THE SYSTEM

DNA MAPPING METHODOLOGY

ADVANCING CONDITION AND TIME BASED MONITORING SYSTEMS

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OUTPUT

KEY PERFORMANCE FACTORS (KPFs)

Trending

OPERATING CYCLE INTERFACE PARAMETERS

Monitoring

GAP TO FAILURE

Analyzing

RESIDUAL LIFE

Evaluating

THE BIG PICTURE AND ACCURATE VIEW

Mapping

DNA MAPPING TECHNOLOGY

ADVANCING CONDITION AND TIME BASED MONITORING SYSTEMS

1) SIMULTANEOUS CONTROLLING

OF INTERFACE PARAMETERS
TO GENERATE ALL STRESS INTERACTIONS

2) GENERATING ALL STRESS INTERACTIONS

TO REPLICATE FIELD CONDITIONS

3) TRENDING AND ANALYSIS

OF PERFORMANCE AND STRESS PARAMETERS
TO MAP THE PRODUCT DNA IN REAL-TIME

4) PREDICTING LIFE EXPECTANCY

AN INTELLIGENT MAP OF DESIGN LIMIT,
NATURE OF FAILURE AND ACTUAL LIFE (DNA)

5) EVALUATING RESIDUAL LIFE

CONTINUOUS TRENDING ANALYSIS OF THE FIELD DATA
TO MAP THE PERFORMANCE DEGRADATION AND
EXCESSIVE STRESS