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Chapter 1 Introduction 1.1

PURPOSE The purpose of this manual is to provide the design engineer with a single-source guide for designing, installing, and operating deep anode

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This manual provides the
design engineer with a
single-source guide for

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designing, installing, and
operating deep anode
systems. The book also

elaborates on how making
the right engineering
decision relates directly to
the successful design of
your system. 2000

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current system showing
rectifier, anode junction
box, external circuit
breaker switch, and vent

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Deep Well Anode System Design. This technical bulletin addresses the design of deep well anode systems for ease of installation and reliable operation. Deep anode

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ground bed systems have been utilized for decades to distribute cathodic protection current to protect pipelines, storage tank bottoms, well casings and other buried structures.

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maintenance. The basic
approach the cathodic
protection to design of the
offshore structures is to
combine cathodic
protection with a n

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effective coating system
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for the underwater
surfaces to

systems, it is around 25%
of the total. If it becomes
much higher then you
should examine the system
to see if the pipes are too

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small. However all pump systems are different, in some systems the friction energy may represent 100% of the pump's energy, This is what makes pump systems interesting, there is a million and one

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anode bed installation
.....63 52 (a) Example of
an anode centralizer for
deep well anodes, and

Anode size is 17 lb.

Package length is 2 ft.

Package diameter is

0.5416 ft. Anode spacing

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Installation And
is 20 ft. Design life is 20
years. Calculations and
Design: (Blue items in this
example refer to the
corresponding items as
detailed in the companion
document titled “Design of
a Galvanic Anode
Cathodic Protection

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T.H. Lewis, with over 20
years of practical field
installation experience,
discusses the different
components crucial to the

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anode system gathering
data, performing design
calculations, selecting
specific material and
techniques, and planning
the installation method.

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than 95% of aU anodes
used in deep water CP

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systems are Aluminum
(Al) alloyed with zinc (Zn)
and Indium (In). This
gives us the Indium
activated Aluminum
anode. This alloy was
developed in the 70's and
is the preferred anode for
deep water applications for

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•• Magnesium Anode

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Note: Anodes should be installed 18” below and 18” to the side of the pipe. The anode should be also be soaked with water before backfilling.

Galvanic anode

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installations are simple
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compared to impressed
current installations.

Figure 5.20 shows a single
packaged anode
installation. The common
17 pound packaged
magnesium anodes are
commonly used for a

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packaged installation.

When several magnesium
or zinc anodes are to be
installed at a single
location, the anodes are
connected to a header wire
which is directly
connected to the pipeline.

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systems, it is around 25% of the total. If it becomes much higher then you should examine the system to see if the pipes are too small. However all pump systems are different, in some systems the friction energy may represent

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100% of the pump's energy, This is what makes pump systems interesting, there is a million and one applications for them.

Working and Arrangement of Deep Well System. The

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deep wells arrangement
for the purpose of

dewatering is similar to
that for commercial water
wells. These systems will
make use of a screen that
have a diameter of 6 to 4
inches with lengths
ranging up to 300 feet.

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When such a system is
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installed, a filter is placed
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Carlile, PhD, P.E. for
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Protection • This system
provides a cathodic current
by galvanic corrosion or
by sacrificing one material

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to prevent corrosion of the
other material • Both the

structure and the anode

must be in contact with the

electrolyte Test Station

Protected Structure

Electrical Continuity

Bonds Sacrificial Anode

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more easily corroded
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"sacrificial metal" to act as
the anode. Impressed
current cathodic protection
(ICCP) systems are
typically installed to
prevent corrosion of metal
underground storage tanks
and associated metal

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piping systems. With an
impressed current system,
current is discharged from
anodes placed in the same
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location, the anodes are

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connected to a header wire
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system through ongoing
field work, technical
training sessions, frequent
meetings with utility
operators, consulting

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engineers, and utility

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contractors. The current
design standards assume a
life-cycle of 50+ years for
pipe being installed today.
Installation of a complete
tracer wire system must
not only provides for

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