

**TECHNICAL PUBLICATION**



# **RIG FALL PROTECTION**





## Purpose:

Help ensure that our employees are properly supplied and outfitted with fall protection items

## Issue:

Fall Pro Reference Doc provides an evergreen list to order the proper fall protection items per application.

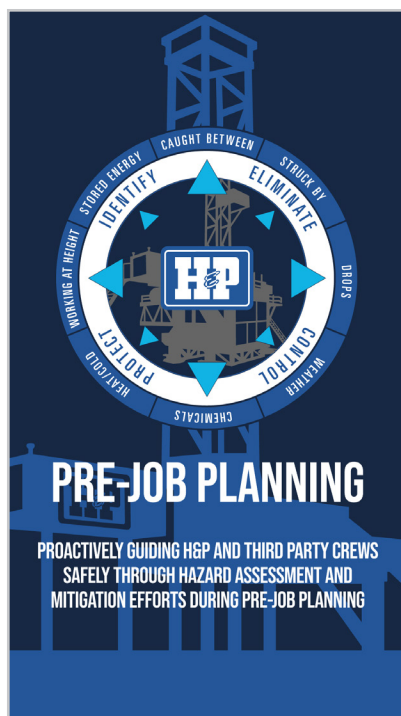
## PRE-JOB PLANNING



**Notice:** If eJSA exists, reference eJSA for applicable safety standards, including Lock Out/ Tag Out/Try Out, before performing ANY of the following procedures.



**Notice:** If eJSA DOES NOT exist, Compass Card will be reviewed for all involved in task. JSA is required when questions 2, 3, or 4 of the Compass Card cannot be answered by anyone.



### ▶ ACTIVELY C.A.R.E.®

1. Gather all H&P and third party personnel identified for task completion.
2. What are the steps for this task?
3. What are the potential hazards?
4. What are the recommended safe practices to eliminate or safeguard the potential exposures?
5. What are our responsibilities during this task? Is anything unclear?
6. Is a permit needed? (LO/TO/TO, PTW, etc.)
7. Do all involved have the correct PPE?
8. Are the correct tools and equipment being used?
9. What could cause a change to the task?
10. Everyone has the authority and responsibility to stop work they believe is unsafe!

If questions 2, 3 and 4 cannot be answered by everyone involved, the eJSA must be used.



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## MULTI-PURPOSE CLIMBING HARNESS

### Description:

**RED** Harness, Delta II Vest Style Front/Back/Side D-Rings  
w/ 18" Extension Tongue Buckle Leg Straps Red



### Inspection Criteria: Multi-Purpose Red Harness

1. Inspect harness hardware (buckles, D-rings, back pad, loop keepers)
  - a. These items must not be damaged, broken, distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion.
  - b. PVC coated hardware must be free of cuts, rips, tears, holes, etc. in the coating to ensure non-conductivity.
  - c. Ensure buckles work smoothly.
2. Inspect webbing; material must be free of frayed, cut, or broken fibers.
  - a. Inspect webbing for concentrated wear.
  - b. Material must be free of frayed strands, broken yarns, cuts, abrasions, burns, and discoloration. The webbing must be free of excessive soiling, paint build-up, and rust staining.
  - c. Check for chemical or heat damage; indicated by brown, discolored, or brittle areas.
  - d. Check for ultraviolet damage; indicated by discoloration and splinters and slivers along the webbing surface.
  - e. All of the above factors are known to reduce strength.
  - f. Damaged or questionable webbing, harness should be removed from use.
3. Inspect labels. All labels should be present and fully legible.
4. Record the inspection date and results in the inspection log.



If inspection reveals an unsafe or defective condition; remove the equipment from service, contact Rig Manager and destroy. If inspection reveals inadequate quantity, order more and close out work order upon receipt of replacement materials.



## DERRICKMAN HARNESS

### Description:

**BLUE AND GRAY** ExoFit X100  
(New Version of Derrickman Harness)

**GREEN** Harness, Delta II Derrick Front/  
Back/Side D-Rings w/ 18" Extension  
Green



Current Green



**Note:** Both harnesses are approved for use.

### Inspection Criteria: Derrickman Harness

1. Inspect harness hardware (buckles, D-rings, back pad, loop keepers)
  - a. These items must not be damaged, broken, distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion.
  - b. PVC coated hardware must be free of cuts, rips, tears, holes, etc. in the coating to ensure non-conductivity.
  - c. Ensure buckles work smoothly.
2. Inspect webbing; material must be free of frayed, cut, or broken fibers.
  - a. Inspect webbing for concentrated wear.
  - b. Material must be free of frayed strands, broken yarns, cuts, abrasions, burns, and discoloration. The webbing must be free of excessive soiling, paint build-up, and rust staining.
  - c. Check for chemical or heat damage; indicated by brown, discolored, or brittle areas.
  - d. Check for ultraviolet damage; indicated by discoloration and splinters and slivers along the webbing surface.
  - e. All of the above factors are known to reduce strength.
  - f. Damaged or questionable webbing, harness should be removed from use.
3. Inspect labels. All labels should be present and fully legible.
4. Record the inspection date and results in the inspection log.



If inspection reveals an unsafe or defective condition; remove the equipment from service, contact Rig Manager and destroy. If inspection reveals inadequate quantity, order more and close out work order upon receipt of replacement materials.



## PERSONNEL HOISTING HARNESSES WITH 5/8" BOLT TYPE ANCHOR SHACKLE

### Description:

**ORANGE** Harness, Delta Bosun Chair, Front/Back/Side D-Rings, 18" Extension, TB Belt/ Pad, Hi-Viz Orange – Board Seat

**ORANGE** 5/8" Crosby bolt type anchor shackle rated to 3.25T



### Inspection Criteria: Personnel Hoisting Harness – Board Style

1. Inspect harness hardware (D-rings, buckles, tool snaps, etc.)
  - a. These items must not be damaged, broken, distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion.
  - b. PVC coated hardware must be free of cuts, rips, tears, holes, etc. in the coating to ensure non-conductivity.
  - c. Ensure buckles work smoothly.
2. Inspect webbing for concentrated wear.
  - a. Material must be free of frayed strands, broken yarns, cuts, abrasions, burns, and discoloration. The webbing must be free of excessive soiling, paint build-up, and rust staining.
  - b. Check for chemical or heat damage; indicated by brown, discolored, or brittle areas.
  - c. Check for ultraviolet damage; indicated by discoloration and splinters and slivers along the webbing surface.
  - d. All of the above factors are known to reduce strength.
  - e. If damaged or questionable webbing, harness should be removed from use.
3. Inspect the wooden seat of the chair for cracks, especially near the webbing holes.
  - a. Also check for rough edges or gouges that could result in splinters.
4. Inspect labels. All labels must be present and fully legible.
5. Record the inspection date and results in the inspection log.



If inspection reveals an unsafe or defective condition; remove the equipment from service, contact Rig Manager and destroy. If inspection reveals inadequate quantity, order more and close out work order upon receipt of replacement materials.



## DBI SALA 6FT. DOUBLE-LEG CLIMBING LANYARDS W/DOUBLE LOCKING HOOKS

### Description:

Lanyard, Force 2 with Web Tie-back – Designed to be tied back to itself.

### Requirements:

Six (6) in use and stored in harness cage in drillers cabin  
(One per crew member, i.e., Six man crews would require six (6) lanyards in belt cage) Two (2) spares.



## FOUR (4) DBI SALA 6' DOUBLE-LEG SHOCKWAVE LANYARD W/PELICAN HOOKS

### Description:

Shockwave 6ft Double Leg lanyard:  
(Alum. Hooks 3m, Steel Hooks 3m)

### Requirements:

Four (4) in use and stored in harness cage in drillers cabin.





## Inspection Criteria: Lanyards with Shock Absorber

1. Lanyards and Hardware: Inspect energy absorbing lanyard or energy absorber component hardware (snap hooks, adjusters, swages, thimbles, etc.).
  - a. These items must not be damaged, broken, distorted, or have any sharp edges, burrs, cracks, worn parts, or corrosion.
  - b. Ensure the connecting hooks work properly.
  - c. Hook gates must move freely and self-locking upon closing. Ensure adjusters move up and down lanyard.
2. Webbing & Stitching: The webbing material must be free of frayed, cut, or broken fibers.
  - a. Check for tears, abrasions, mold, burns, or discoloration, etc.
  - b. The webbing must be free of knots, excessive soiling, heavy paint buildup, and rust staining.
  - c. Check for chemical or heat damage indicated by brown, discolored, or brittle areas.
  - d. Check for ultraviolet damage indicated by discoloration and the presence of splinters or slivers on the webbing surface.
  - e. All of the above factors are known to reduce webbing strength.
  - f. Inspect stitching for pulled or cut stitches.
  - g. Broken stitches may be an indication the energy absorbing lanyard or energy absorber component has been impact loaded and must be removed from service.
3. Energy Absorber & Impact Indication: Inspect the energy absorber to determine if it has been activated. There should be no evidence of elongation.
  - a. Ensure energy absorber cover is secure and not torn or damaged.
4. Labels: All labels should be present and fully legible



If inspection reveals an unsafe or defective condition; remove the equipment from service, contact Rig Manager and destroy. If inspection reveals inadequate quantity, order more and close out work order upon receipt of replacement materials.





## DERRICK RACKING BOARD

**\*\*With Upgraded tugger guard and storm bars\*\***

1. 6ft Transition Lanyard - Attaches to Towel bar with 5/8" shackle (Cotter Pin Keeper).

- Qty: Two (2) of each on rig.  
One (1) in use to transition from derrick ladder to board and one (1) spare.



2. Tripping Lanyards – Attached to rear stanchion post on racking board with 5/8" shackles. Length based on Setback Size: 12ft, or 14ft lanyards.

- Qty: Four (4) of proper lanyard length on rig. Two (2) in use on stanchion post at board and two (2) spares.







## DERRICK RACKING BOARD

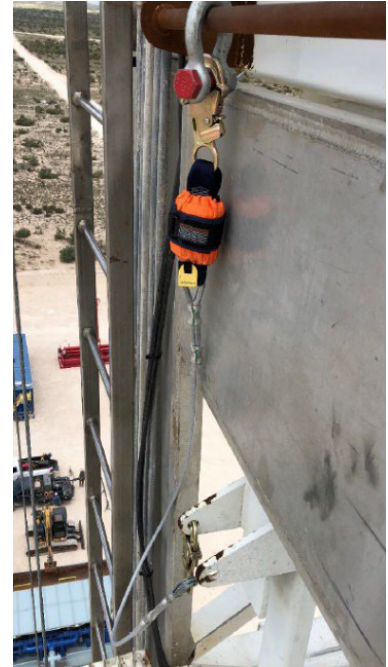
3. 6ft Transition Lanyard - Attaches to Towel bar with 5/8" shackle (Cotter Pin Keeper).

- Qty: Two (2) of each on rig.  
One (1) in use to transition from ladder to board and one (1) spare.



4. Tripping Lanyards – Attached to rear stanchion post on racking board with 5/8" shackles. Length Based on Setback Size.

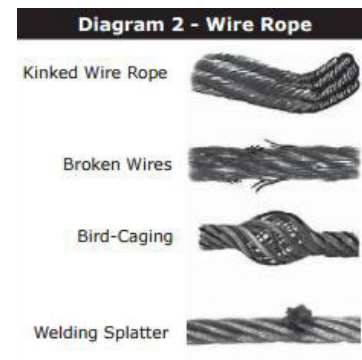
- Qty: 4 of proper lanyard length on rig. Two (2) in use on stanchion post at board and two (2) spares.





## Inspection Criteria: Wire Rope Lanyards with Shock Absorber

1. Lanyards and Hardware: Inspect energy absorbing lanyard or energy absorber component hardware (snap hooks, adjusters, swages, thimbles, etc.).
  - a. These items must not be damaged, broken, distorted, or have any sharp edges, burrs, cracks, worn parts, or corrosion.
  - b. Ensure the connecting hooks work properly.
  - c. Hook gates must move freely and self-locking upon release. Ensure adjusters (if present) work properly.
2. Wire Rope: Inspect entire length of the wire rope. Always wear protective gloves when inspecting wire rope.
  - a. Inspect for broken wires by passing cable through gloved hands, flexing it every few inches to expose breaks.
  - b. Broken wires can be removed by bending the wire back and forth parallel to the rope length. Do not attempt to pull wires out of rope. Remove the energy absorbing lanyard from service immediately and destroy if there are six or more randomly distributed broken wires in one lay, or three or more broken wires in one strand in one lay.
  - c. A “lay” of wire rope is the length of wire rope that it takes for a strand (the larger groups of wires) to complete one revolution or twist along the rope. Remove the energy absorbing lanyard from service immediately and destroy if there are any broken wires within 1 inch of the metal compression sleeves (swages) at either end of the assembly. The wire rope should be free of corrosion.
3. Energy Absorber and Impact Indication: Inspect the energy absorber to determine if it has been activated. There should be no evidence of elongation.
  - a. Ensure energy absorber cover is secure and not torn or damaged.
4. Labels: All labels should be present and fully legible.



If inspection reveals an unsafe or defective condition; remove the equipment from service, contact Rig Manager and destroy. If inspection reveals inadequate quantity, order more and close out work order upon receipt of replacement materials.



# DERRICK RACKING BOARDS

## Derrick Belt, 8-inch-wide belly pad with belt & Belly Belt Rope

**Quantity Requirements: \*Size can vary based on individual rig crew needs\***

- One (1) Large in use at the derrick board
- Two (2) spares (1 L, 1 XL)
- One (1) Belly Belt Rope in use at the derrick board and one (1) spare.



## Inspection Criteria: Derrick Belt and Belly Pad

1. Inspect the hardware (D-rings, buckles, tool snaps, etc.).
  - a. These items must not be damaged, broken, or distorted.
  - b. These items must be free of sharp edges, burrs, cracks, worn parts, or corrosion.
2. Inspect webbing for concentrated wear.
  - a. Material must be free of frayed strands, broken yarns, cuts, abrasions, burns, and discoloration.
  - b. The webbing must be free of excessive soiling, paint build-up, and rust staining.
  - c. Check for chemical or heat damage; indicated by brown, discolored, or brittle areas.
  - d. Check for ultraviolet damage; indicated by discoloration and splinters and slivers along the webbing surface.
  - e. All of the above factors are known to reduce strength.
  - f. Damaged or questionable webbing should be removed from use.
3. Inspect labels. All labels must be present and fully legible.
4. Record the inspection date and results in the inspection log.



## DERRICK LADDERS

### Derrick Ladder Static Lines “LAD-SAF” All Land Rig Classes.

**Note:** Contact HSE to verify correct LAD-SAF system prior to ordering.

#### Gen 3

1. Gen 3 LAD-SAF Top (for crown) & Bottom Bracket Kit.
2. Gen 3 LAD-SAF Bottom Bracket Mount.
3. Gen 3 LAD-SAF Top bracket for Gas Buster.
4. 10ft Cable – Gen 3: For F3w Gas Buster.
5. 40ft Cable – Gen 3: All Derrick Stands.
6. 150ft – Gen 3: Mast Ladder.

#### Sliding Sleeves

7. LAD-SAF Cable Sleeve, X3 For LAD-SAF System.

#### Requirements:






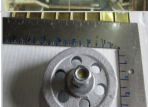







- Two (2) in use on derrick ladder LAD-SAF cable.
- One (1) spare.





## DERRICK LADDERS

### Climb Assist Info for all H&P land rig classes:









Items	Image	Kit includes the following
1		CLIMB ASSIST GUY WIRE CABLE, W/ RUNG/BELT HOOK ASSEMBLY, 1/4 IN X 170 FT, GALV
2		CLIMB ASSIST HOOK ASSEMBLY, RUNG/BELT, FOR ALL RIG CLASSES
3		CLIMB ASSIST GUY-WIRE, 1/2 IN X 150 FT, 115-HT-BLANK, FIXED LINE, FOR FLEX 5 AND 4S
4		CLIMB ASSIST GUY-WIRE, 1/2 IN X 165 FT, 115-HT-BLANK, FIXED LINE, FOR FLEX 3
5		RETROFIT KIT, F3 CLIMB ASSIST ANCHOR POINT
6		SHEAVE, FOR CLIMB ASSIST
7		BRACKET, FOR CLIMB ASSIST/FALL ARREST SYSTEM, USED ON FLEX 3 RIG
8		COUNTERWEIGHT ASSEMBLY, SSB SERIES, FOR CLIMB ASSIST SYSTEM
9		SAFETY BLOCK, SSB SERIES, FOR CLIMB ASSIST/FALL ARREST SYSTEM, USED ON FLEX 3 RIG, DBI SALA (RETURN CORE TO WAREHOUSE)
10		BUSHING, FOR CABLE, FOR CLIMB ASSIST
11		HARDWARE KIT, INCLUDES (8) CAPSCREWS - HEX HEAD 1/2-13 X 3-1/2 IN L, DRILLED HEAD, (8) WASHERS - HELICAL SPRING LOCK 1/2 IN, (8) NUT - LOCK, NYLON INSERT 1/2 IN-13, FOR MP151117 MAST CLIMB ASSIST MOUNTING BRACKET RETROFIT ONLY
12		REPLACEMENT CABLE GUIDE, PLASTIC, W/ HARDWARE - (4) SCREWS, FOR CLIMB ASSIST COUNTERWEIGHT
13		CARABINER, STEEL, SELF CLOSING/LOCKING, 2-3/16 IN OPENING, 3600 LB, DBI/SALA



## PARTS LIST BELOW FOR ALL STANDARDIZED SRL'S

### STANDARD SRL PARTS LIST

#### US Land

Items	Image	Kit includes the following
1		CARABINER, STEEL, SELF CLOSING/LOCKING, 2-3/16 IN OPENING, 3600 LB, DBI/SALA
2		SRL SECONDARY RETENTION CABLE WITH CARABINER, CONTAINS TIE OFF CABLE AND CARABINER
3		LIFELINE, SELF RETRACTING LIFELINE, 30 FT, SEALED BLOCK, WITH SS CABLE AND SNAPHOOK, DBI SALA (RETURN CORE TO WAREHOUSE)
4		LIFELINE, SELF RETRACTING LIFELINE, 50 FT, SEALED BLOCK, WITH SS CABLE AND SNAPHOOK, DBI SALA (RETURN CORE TO WAREHOUSE)
5		LIFELINE, SELF RETRACTING LIFELINE, 85 FT, SEALED BLOK, WITH SS CABLE AND SNAPHOOK (RETURN CORE TO WAREHOUSE)
6		LIFELINE, SELF RETRACTING LIFELINE, 130 FT, SEALED BLOCK, WITH SS CABLE AND SNAPHOOK, DBI SALA (RETURN CORE TO WAREHOUSE)
7		D-RING KIT, WITH HARDWARE FOR SELF RETRACTING LIFELINE (SRL), SECONDARY RETENTION CABLE ATTACHMENT FOR OLD STYLE HOUSING ONLY, 30 FT, 50 FT AND 85 FT
8		LIFELINE, SELF RETRACTING, SRL, D-RING KIT (INCLUDES HARDWARE) FOR SECONDARY RETENTION CABLE ATTACHMENT FOR OLD STYLE HOUSING ONLY, 130 FT



## ROLLGLISS / GERONIMO LINE

Items	Image	Kit includes the following
1		ROLLGLISS, SLOW SPEED DESCENT SYSTEM, 200 FT SS CABLE WITH SNAP HOOK, INCLUDES HARDWARE KIT, DBI SALA (RETURN CORE TO WAREHOUSE)
2		SLEEVE, GUIDE CABLE, FOR ROLLGLISS DESCENT SYSTEM (GERONIMO LINE), DBI SALA
3		HARDWARE KIT, FOR USE WITH OLD STYLE ROLLGLISS SLOW SPEED DESCENT SYSTEM (WITH HAND CRANK WHEEL), INCLUDES BRACKETS, SLEEVE, SNAPHOOK AND HARDWARE, DBI SALA
4		HARDWARE KIT, FOR USE WITH NEW STYLE ROLLGLISS SLOW SPEED DESCENT SYSTEM, INCLUDES BRACKETS, SLEEVE, SNAPHOOK AND HARDWARE, DBI SALA
5		WIRE ROPE ASSEMBLY, 1/2 IN X 5 FT, SS10-OS-OS, FOR ATTACHING ROLLGLISS DESCENT SYSTEM TO THE MAST ON FLEX 5 AND WF3 WALKING RIGS
6		WIRE ROPE ASSEMBLY, 1/2 IN X 130 FT, SS15-HT-HT, FIXED LINE, FOR ROLLGLISS DESCENT SYSTEM (GERONIMO LINE) FLEX 3 AND WALKING FLEX 3
7		WIRE ROPE ASSEMBLY, 1/2 IN X 170 FT, SS15-HT-HT, FIXED LINE, FOR ROLLGLISS DESCENT SYSTEM (GERONIMO LINE) FLEX 5
8		WIRE ROPE ASSEMBLY, 1/2 IN X 149 FT, SS15-HT-HT, FIXED LINE, FOR ROLLGLISS DESCENT SYSTEM (GERONIMO LINE) FLEX 4S





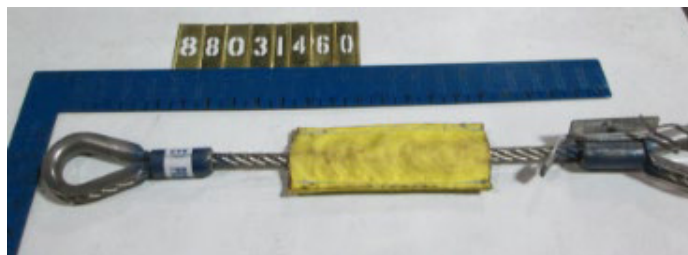
## CELLAR RETRIEVAL SRL AND CABLES/CLAMPS

### Cellar Retrieval SRL



### Cable to attach Retrieval SRL in cellar area under floor

Cable to attach SRL in Cellar area  
under BOP Deck on F4s & F5  
(Requires Beam Clamp)





## CONFINED SPACE TRIPOD / SRL: (TRIPOD WITH RETRIEVAL SRL)

### Tripod Alone:

4ft Cable lanyard Assy. without shock pack with double locking hook.

**\*\*Attach Cable to AWP using supplied Loc-A-Loy or Small Carabiner\*\***



**30ft Cellar/Confined Space Retrieval SRL With bracket for Tripod use:  
Replacement Bracket to Mount Retrieval SRL to Winch.**



## AWP LANYARDS

### Quantity Requirements:

Two (2) in use in the man lift/AWP

Two (2) spares (also for situations where we get an extra man lift on location)





## CABLE LIFELINE SYSTEMS

- **Horizontal Lifeline Kit 50ft:** Comes with all hardware. Order two 5/8" shackles and two small carabiners to install on DS and ODS rig floor for rig move exposures when center steel is removed.
- **Quantity Requirements:** Two (2) lifelines on rig for use on rig move (1 DS & 1 ODS). Four (4) of each - 5/8" Shackles and carabiners to install on rig floor.





## CABLE TRAY COVERAGE



Logix Systems, Inc.





## MISC. FALL PROTECTION EQUIPMENT:

### Beam Straps:

- 3ft, 4ft, or 6ft beam straps.

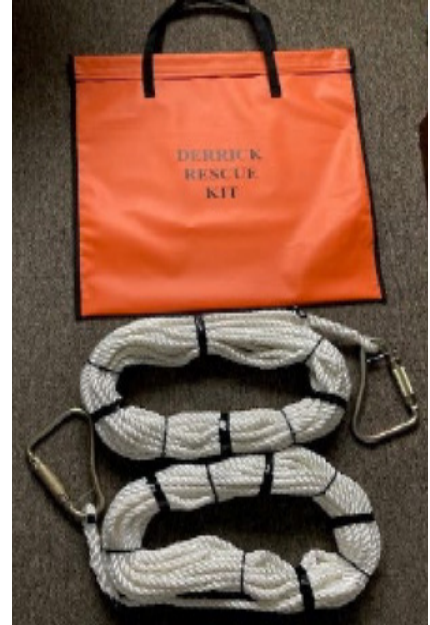


### Beam Clamps:

- Fixed Beam Clamp



- Sliding Beam Clamp



Mast Rescue Kit: **\*\*FOR RESCUE ONLY!!\*\***

**\*\*Keep in Drillers Cabin at all times! Refer to High Angle Rescue Plan for Use\*\***

## DOCUMENT AMENDMENTS

**Note:** The practices shown in this document are current as of its publishing. They are to be used only in addition to the latest revisions to the proper procedures and policies. Paper copies are uncontrolled; please ensure you are accessing the latest revision by viewing the document through H&P's Document Repository.

**➤ ACTIVELY C.A.R.E.®**