A) Weekly Checks
- It is most important to fasten the special nuts of the fulcrum pin tightly.
- Check also the flange bolts for tightness and keep the pump platform and the drainage channel clean.

B) Monthly Checks
- **Make a Leakage Test:**
  a) Operate pump handle until water is flowing from the spout.
  b) Stop operating the pump handle for approximately 30 minutes.
  c) Then operate the handle and count exactly how many strokes are required until the water is starting to flow again.
  
  If more than 5 handle strokes are required to make the water flow again, there must be a leakage in the rising main or the footvalve.
  
  **Report to a pump mechanic!**

- **Make a Discharge Test:**
  a) Operate pump handle until a constant water flow is achieved.
     (pump ratio approximately 40 full handle strokes per minute).
  b) Place a bucket in the continuous water flow for exactly one minute.
  c) Take the bucket off the water flow and check the amount of water.
  
  If the discharge is less than 15 litres, there might be a problem with the bobbins or the cup seal.
  
  **Report to a pump mechanic!**

C) Yearly Checks  Dismantling Procedure for Plunger and Footvalve

1) Open cover bolt and remove cover.

2) Keep handle at lowest position, loosen hanger pin - & fulcrum pin nuts.

3) Insert spanner into retainer bush and rest it in the slots provided. Then move handle horizontally.

4) Pull out the handle carefully.

5) Remove hanger pin and bearing bushes from the rod hanger.

6) Remove fulcrum pin and bearing bushes from the handle.

Continuation see overleaf
Continuation from previous side

8) Open all rod connections on top of the resting tool.

9) Remove all pumprods & plunger rod.

10) Replace plunger rod with fishing tool and re-install all pumprods for fishing the footvalve.

Checking of wearing parts

Check wearing parts, replace if worn:
- a) Bobbin ……………… C2088
- b) Cup seal ……………… C2758
- c) Bearing bush outer … C2044
- d) Bearing bush inner … C2045
- e) O-Ring ………………… C1021
- f) Pumprod centralisers C2212

Re-installing Plunger & Footvalve

1) Insert the footvalve into the rising main pipe and let it drop down the hole.

2) Install the plunger and all pumprods with resting tool.

3) If top rod is connected, lower the rod assembly until it rests on the footvalve. Push footvalve gently to its end position (an additional pumprod is required).

4) Lift top rod, insert spanner into retainer bush & rest it in slots of the pump head.

5) Insert hanger pin & bearing bushes into rod hanger.

6) Insert fulcrum pin & bearing bushes into pump handle.

7) Insert handle gently into pump head (horizontal) and adjust position of lock pin & lug in the slot.

8) Move handle slowly downwards & check/adjust the position of lock pin and the lug in the slot.

9) Keep handle at lowest position, remove spanner from the rod housing and tighten all nuts tightly.

10) Put the cover back onto the pump head and tighten the cover bolt.

11) Operate the pump handle, check for leakage & discharge and hand the pump over to the users.

SKAT-RWSN 08-01-2009