

1. Procedure summary

This procedure outlines the proper method of cleaning grates in DFC.

1.1. Related Procedures

DFP Basket Strainer Replacement/ Cleaning	CB-02-004-006
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TA Basket Strainer Replacement	CB-02-004-007
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1.2. Procedure impacts and concerns

Safety

Required PPE: Standard PPE, nitrile gloves, and waders.

Quality

Clean up and dispose of material in the proper container.

Environmental

Debris collected and removed from grates should be disposed of in local trash receptacles. Any spills of material removed from the grates needs to be cleaned up as soon as possible and notify EH&S.

Cost

Failure to keep grates clean correctly may result in Pump/equipment damage and down time.

1.3. Responsibilities and owners

Document Owner	Manage content and distribution	Julio Chavez
Process Owner	Responsible for content and process validation	Dhawal Dhonde
Site Manager	Responsible for implementation and conformance	Dhawal Dhonde

2. The purpose of this SOP is to describe proper procedures for cleaning the DFC grates.

2.1. Process diagram: Work Instruction.

Restricting of Flow Clean Dispose of trash or debris into dumpster

2.2. Process steps

2.2.1. HMI operator will inform field operators to check inner/outer grates when GPM's on DFC pump decrease on HMI monitor - due to losing flow in channel from blockage.

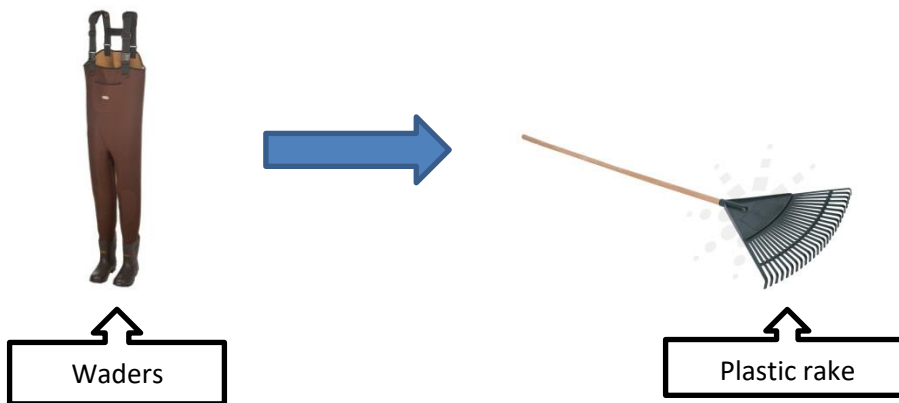


Figure 1- Shows one of the many problems on site (tumbleweeds).

NOTE: Other problems may be corn husks, grasshoppers, locus, bugs, and dead wild animals.

NOTE: Each employee has a set of waders assign to them.

2.2.2. Field operator will put on waders and nitrile gloves and rake any blockage from the inner and outer grates.



NOTE: Do not enter the DFC if water level is above waders.

NOTE: Advise HMI operator when entering DFC channel via radio.



Figure 2- Shows the raking of debris from outer grate.



Figure 3- Shows Disposing Debris into Trash can.

NOTE: Standard procedure is two people to clean grates.

2.2.3. Once outer grates are clear of all debris, proceed to inner grate.



Figure 4-Shows locking chain with metal hook to the gate to get into inner grate.



Figure 5-Shows raking of debris from inner grate.

Figure 6-Shows employee walking up the DFP stairs with trash can full of weeds from grates



NOTE: Report/document cleaned grates and depth of DFC after cleaned on production log.



Figure 7-shows dumping the weeds from the grates into a pile.

NOTE: clean up weeds at the end of the day and dispose them in the dumpster.

2.2.4. Once inner grate is clean, close grate and remove bucket and rake from channel. Remove waders. Advise HMI operator that you are out of channel and grates are clean.

2.3. Required documents

3. Input documents

Write down time and date when finished cleaning grates on production log.

<Input document number>

3.1 Output documents

Production Log

<Output document number>

3.2. Document control**Revision history**

4.	R0 – Initial Release – Leo Willis, Magdalena Pacheco	<Date>-20150203
	R1 – Julio Cesar Chavez	<Date>20151218

4.1.**Document approval**

<Name>

<Approval date>

4.2. Document reviewers

<Name>

<Last reviewed date>

<Name>

<Last reviewed date>

4.3. Risk analysis

<Risk name>

<Mitigation plan>

<Own