



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301-1271
(503) 986-0900
www.wrd.state.or.us

Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. A summary of review criteria and procedures that are generally applicable to these applications is available at www.wrd.state.or.us/OWRD/PUBS/forms.shtml.

1. APPLICANT INFORMATION

A. Individuals

Applicant: _____
First Last

Mailing address: _____

City State Zip

Phone: _____
Home Work Other

*Fax: _____ *E-Mail address: _____

B. Organizations

(Corporations, associations, firms, partnerships, joint stock companies, cooperatives, public and municipal corporations)

Name of organization: City of Shaniko

Name and title of person applying: Debra Hollbrook, City Recorder

Mailing address of organization: P.O. Box 17

Shaniko OR 97057
City State Zip

Phone: (541) 489-3434
Day Evening

*Fax: _____ *E-Mail address: _____

* Optional information

For Department Use		
App. No. G-16847	Permit No. _____	Date _____

Last updated: 6/7/2005

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SALEM, OREGON

2. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water?

☐ Yes (Skip to section 3 "Ground water Development.")

☒ No (Please check the appropriate box below.)

☒ I have a recorded easement or written authorization permitting access.

☐ I do not currently have written authorization or easement permitting access.

☐ Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigated and/or domestic use only (ORS 274.040).

You must provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.

List the names and mailing addresses of all affected landowners.

Well 1 (WASC 51536) - Columbia Empire Farms, 31461 NE Bell Road, Sherwood, OR 97132

Proposed Wells 2 & 3 - City of Shaniko

Proposed Place of Use - NA (Municipal Use)

3. GROUND WATER DEVELOPMENT

A. Well Information

Number of well(s): 3

Name of nearest surface water body: Big Pine Hollow

Distance from well(s) to nearest stream or lake: 1) 2,100 +/- feet

2) 30 +/- feet 3) 30 +/- feet 4)

If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1) 130 +/- feet

2) 10 +/- feet 3) 10 +/- feet 4)

B. Well Characteristics

Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to section 4 of the form. If the well has not been constructed, or if you do not have a well log, please complete the following:

Well(s) will be constructed by: Well 1 - Arrow Drilling Wells 2&3 - To Be Selected

Address: Arrow Drilling 729 N. Main Street, Newberg, OR 97132

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Completion date: Well 1 - March 2007 Wells 2 & 3 - by 2010 (if drilled) MAY 04 2007

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Please provide a description of your well development. (Attach additional sheets if needed.)

Well No.	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
1	See	WASC 51536							
2	16 inch	Steel, 12 inch	250+/-	below 250	250'+/-	250'+/-	250'+/-	1 inch port	450' +/-
3	16 inch	Steel, 12 inch	250+/-	below 250	250'+/-	250'+/-	250'+/-	1 inch port	450' +/-

Note: Well numbers in this listing must correspond to well locations(s) shown on accompanying map.

If well log is not available, or well is not yet constructed, you must provide: proposed total depth, depth of casing and seal, and the anticipated perforation and open intervals.

C. Artesian Flows

If your water well is flowing artesian, describe your water control and conservation works:

NA

4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

A. Type(s) of Use(s)

See list of beneficial uses provided in the instructions.

- If your proposed use is **domestic**, indicate the number of households to be supplied with water: _____
- If your proposed use is **irrigation**, please attach **Form I**
- If your proposed use is **mining**, attach **Form R**
- If your proposed use is **municipal or quasi-municipal**, attach **Form M**
- If your proposed use is **commercial/industrial**, attach **Form Q**

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B. Amount of Water

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Well No.	Source or aquifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
1	Basalt	Municipal	250	131,400,000	250
2	Basalt	Municipal	250	131,400,000	250
3	Basalt	Municipal	250	131,400,000	250

C. Maximum Rate of Use Requested

What is the maximum, instantaneous rate of water that will be used? 250 gpm from any combination of wells
(The fees for your application will be based on this amount.)

D. Period of Use

Indicate the time of year you propose to use the water: Year-Round
(For seasonal uses like irrigation give dates when water use would begin and end, e.g. March 1–October 31.)

E. Acreage

If you will be applying water to land, please give the total number of acres where water will be applied or used: NA - Municipal Use
(This number should be consistent with your application map.)

5. WATER MANAGEMENT**A. Diversion**

What equipment will you use to pump water from your well(s)?

☒ Pump (give horsepower and pump type): Submersible or line shaft turbine (hp to be later determined)

☐ Other means (describe): _____

B. Transport

How will you transport water to your place of use?

☒ Ditch or canal (give average width and depth):

Width _____ Depth _____

Is the ditch or canal to be lined? ☒ Yes ☐ No

☒ Pipe (give diameter and total length):

Diameter 1 to 6 inches Length >2000 feet

☐ Other (describe) _____

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C. Application/Distribution Method

What equipment will you use to apply water to your place of use? NA - Municipal Use

Irrigation or land application method (check all that apply):

- | | | |
|--|--|---|
| ☐ Flood | ☐ High-pressure sprinkler | ☐ Low pressure sprinkler |
| ☐ Drip | ☐ Water cannons | ☐ Center pivot system |
| ☐ Hand lines | ☐ Wheel lines | |
| ☐ Siphon tubes or gated pipe with furrows | | |
| ☐ Other, describe _____ | | |

Distribution method

- ☐ Direct pipe from source ☒ In-line storage (tank or pond) ☐ Open canal

D. Conservation

What methods will you use to conserve water? Why did you choose this distribution or application method? For example, if you are using sprinkler irrigation rather than drip irrigation, explain. If you need additional space, attach a separate sheet.

The pricing structure will encourage water conservation. The City also will encourage use of low flow devices.

6. PROJECT SCHEDULE

Indicate the anticipated dates that the following construction tasks should begin. If construction has already begun, or is completed, please indicate that date.

Proposed date construction will begin: As soon as permit is issued

Proposed date construction will be completed: October 1, 2010

Proposed date beneficial water use will begin: October 1, 2011

7. REMARKS

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

1. Well 1 (WASC 51536) drilled in March 2007 on private property. Its use has been offered to the City.
2. The City would like to use the uppermost aquifer that is not deemed to be in hydraulic connection with surface water. The intent is to case and seal any aquifers deemed to be in hydraulic connection with surface water.
3. A pre-application conference with Jerry Sauter of the Oregon Water Resources Department occurred on January 29, 2007.

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8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

Debra J. Holbrook

Signature of Applicant (If more than one applicant, all must sign.)

4/20/07

Date

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount. The Department's fee schedule can be found at www.wrd.state.or.us or call (503) 986-0900.

WRD on the web:
www.wrd.state.or.us

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Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).
1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: City of Shaniko

Name and size of area to be served: City of Shaniko
(in square miles)

Present population of service area: 25
(Contact county planning staff, if needed.)

Projected population in 20 years: 30 (Based on consistent range over last 20 years)
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
Cert. 82836 12/06/2006	5 springs -	50 gpm	Municipal

Tributary to John Day River

Water Use

Average yearly demand: 7.36 AFY Year: 2006

Per-capita daily consumption (in gallons): 260
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 7/1 to 8/1 Total peak season demand: 1.60 Acre-feet

Peak season per-capita daily consumption: 700
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

produced: 7.36
(diverted or pumped)

delivered: 7.36

Is your system fully metered? ☒ Yes ☐ No

Describe your rate structure: Base rate with additional cost for using >5,000 gallons/month.
(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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Request for Water

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other): The spring yield declines in summer, when water is needed most. In addition, the City would likely need to implement surface water disinfection measures in the future. The use of groundwater would remove these constraints.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) 2026

C. Briefly discuss operation of water system and the most constraining component of the system:

Currently, water is collected in a reservoir located in Big Pine Hollow and pumped about 1/2 mile north to the main portion of town. The most constraining component is that the spring yields are insufficient to meet summer demand. The use of groundwater would remove this constraint.

D. Percentage of water use by type:

Residential: <u>90</u>	Commercial: <u>10</u>
Public Authority: _____	Agricultural: _____
Unaccounted for use: _____	Industrial: _____
Other (specify use): _____	

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

\$375,000. The spring system cannot be expanded for more supply, leaving groundwater as the preferred source. In addition, the spring water will likely need to be treated in the future to meet regulatory requirements.

F. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

Not Available

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Oregon Water Resources Department Land Use Information Form

THIS FORM IS NOT REQUIRED IF: 1) water is to be diverted, conveyed, and/or used only on federal lands; or 2) the application is for a water-right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and all of the following apply: a) only the place of use is proposed for change, b) there are no structural changes, c) the use of water is for irrigation, and d) the use is located in an irrigation district or exclusive farm-use zone.

Applicant Name: _____ City of Shaniko
 Mailing Address: _____ P.O. Box 17
 City: _____ Shaniko State: _____ OR Zip: _____ 97057 Day Phone: _____ (541) 489-3434

This application is related to a Measure 37 claim. ☐ Yes ☒ No

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), or used. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g. Rural Residential/RR-5)	Water to be:	Proposed Land Use:
6S	16E	36	NE SE	400		☒ Diverted ☒ Conveyed ☒ Used	
6S	16E	36	E 1/2	--	--	☒ Diverted ☒ Conveyed ☒ Used	
						☐ Diverted ☐ Conveyed ☐ Used	
						☐ Diverted ☐ Conveyed ☐ Used	

List all counties and cities where water is proposed to be diverted, conveyed, or used. _____ City of Shaniko
 _____ Wasco County

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water ☐ Water-Right Transfer ☐ Exchange of Water
☐ Allocation of Conserved Water ☐ Limited Water Use License
☐ Permit Amendment or Ground Water Registration Modification

Source of water: ☐ Reservoir/Pond ☒ Ground Water ☐ Surface Water (name) _____

Estimated quantity of water needed: _____ 250 _____ ☐ cubic feet per second ☒ gallons per minute ☐ acre-feet

Intended use of water: ☐ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☒ Municipal ☐ Quasi-municipal ☐ Instream ☐ Other _____

Briefly describe: Groundwater from an 8-inch-diameter well would be used for municipal purposes. The City may eventually drill a larger-diameter well.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt below and include it with the application filed with the Water Resources Department.

Receipt for Request for Land Use Information

State of Oregon
 Water Resources Department
 725 Summer Street NE, Suite A
 Salem, OR 97301-1266

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For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form.

This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

☒ Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): Not Regulated

☐ Land uses to be served by proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.)
If approvals have been obtained but all appeal periods have not ended, check "Being pursued".

Type of Land-Use Approval Needed (e.g. plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued
		☐ Obtained ☐ Denied	☐ Being pursued ☐ Not being pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Name: Laura Buhl Title: Associate Planner
Signature: Laura Buhl Phone: 506-2560 Date: May 3, 2007
Government Entity: Wasco County Planning + Development

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

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Applicant name: _____

MAY 04 2007

City or County: _____

Staff contact: _____

Signature: _____

Phone: _____

Date: _____

**WATER RESOURCES DEPT
SALEM, OREGON**

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Arrow 07-010 **WASC 51536**

WELL ID # L 78438
START CARD # 192651

(1) LAND OWNER:

Name: Columbia Empire Farms
Address: 31461 NE Bell Road
City: Sherwood State: OR Zip: 97132

Well Number: _____

(2) TYPE OF WORK:

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other: _____

(4) PROPOSED USE:

☐ Domestic ☒ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No

Depth of Completed Well 604

Explosives Used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			sacks or pounds
Diameter	From	To	Material	From	To	
15"	0	7	bent chps	0	35	19 scks
12"	7	258	cement	35	258	105 scks
8"	258	593				
7 7/8"	593	604				

How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E

☒ Other bentonite poured-probed

Backfill placed from _____ to _____ Material _____

Gravel placed from _____ to _____ Size of gravel _____

(6) CASING/LINER:

CASING:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
8"	+2'	258	.250	☒	☐	☒	☐
				☐	☐	☐	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

LINER:

6"	242	604	.250	☒	☐	☒	☐
				☐	☐	☐	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None

Final location of Shoe(s): 8" 258' 6" top/bottom of liner

(7) PERFORATIONS/SCREENS:

☒ Perforations Method: mill slotted

☐ Screen Type: _____ Material: _____
Slot _____ Tele/pipe _____

From	To	Size	No.	Diameter	size	Casing	Liner
422	442	1/8x3	396	6"	pipe	☐	☒
544	604	1/8x3	1188	6"	pipe	☐	☒
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian
Yield gpm _____ Drawdown _____ Drill Stem at _____ Time _____

250	N/A	600'	1 hr.
250	N/A	600	5 hrs.

Temperature of water 52 Depth Artesian Flow Found _____

Was a water analysis done? yes By whom: Arrow

Did any strata contain water not suitable for intended use? (explain)
yes, very hard water

Depth of Strata: 97 to 220

(9) LOCATION OF WELL by legal description:

County: Wasco Latitude: _____ Longitude: _____
Township: 6S Range: 16E
Section: 36 NE 1/4 SE 1/4
Tax Lot: 400 Lot: _____ Block: _____ Subdivision: _____
Street Address of Well (or nearest address) F Street Shaniko
Oregon

(10) STATIC WATER LEVEL:

236 Ft. below land surface Date 2/30/07
Artesian pressure _____ lb. per sq. in. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 50'

From	To	Est. Flow Rate	SWL
50	35	< 1 gpm	dnm
97	220	130 gpm	87'
405	594	250 gpm	236

(12) WELL LOG:

Ground Elevation: _____

Material	From	To	SWL
soil and cobbles	0	1	
basalt gray whd	1	4	
basalt gray hrd	4	9	
basalt brwn vesic	9	19	
basalt gray med-hrd	19	34	
basalt gray hrd	34	50	
basalt gray hrd some brwn	50	55	
basalt gray vesic	55	67	
basalt gray hrd w/oc brwn seam	67	79	
basalt gray very hrd	79	97	
basalt gray vesic	97	103	
basalt gray/brwn vesic bkn	103	125	
basalt gray hrd fract	125	149	
basalt blk hrd fract	149	220	
basalt blk hrd occ fract	220	239	
basalt gray hrd	239	267	
basalt blk hrd	267	280	
basalt gray hrd	280	370	
basalt blk hrd sm fract	370	393	
siltstone/claystone green	393	405	
basalt blk/blue vesic	405	412	
basalt blk hrd	412	445	
basalt blk hrd fract	445	481	
basalt gray hrd	481	503	
basalt gray/blk/green (cindery)	503	521	
basalt blk hrd	521	544	

Date Started: 3/15/07

Completed: 3/30/07

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed _____ WWC Number _____
Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 1483
Date 4/6/07

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SALEM, OREGON

CONSTRUCTOR
SECOND COPY - Customer

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WATER RESOURCES DEPT
SALEM, OREGON

WELL CONSTRUCTION EVALUATION

Region: 3 County: **Wasco** Plan Review Number: **29-2007**

Water System: **Shaniko Corporation Hotel** PWS ID# **New**

Well Name: **Well New (L78438)** Date Completed: **3/30/07**

County Well ID: **WASC 51536** Well Label: **L78438**

Well Construction Adequate? **Yes**

Depth of Well (ft): **604** Exposed Casing Diameter (in): **8**

Depth at Which Water was First Found (ft): **50**

Depth to Aquifer (ft): Water-bearing zone(s):

<u>From</u>	<u>To</u>	<u>SWL</u>
50	35	dmn
97	220	87
405	594	236

Static Water Level (ft): **236**

Aquifer Character: **Confined fractured basalt (Grande Ronde Basalt)**

Depth to Confining Layer (ft): **239**

Four-Inch Annular Space (in): **Yes** or Method A, B or D:

Seal Depth (ft): **251**

Type of Sealant: **Bentonite & Cement**

Amount of Sealant Used (bags):

Sealant	Interval (ft)	Used	Required
Bentonite	0-35	19 sacks	8.5 sacks
Cement	35-258	105 sacks	87 sacks

Comments:

Review Requested by: **Bill Goss**

Reviewed by: **Russell Kazmierczak**

Date: **October 4, 2007**

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