



State of Utah

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DIVISION OF SOLID AND
HAZARDOUS WASTE
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Scott T. Anderson
Executive Secretary

June 4, 2013

Dwayne J. Woolley, General Manager
Trans Jordan Landfill
10873 South Bacchus Hwy
South Jordan, Utah 84095-0610

RE: Trans Jordan Landfill Permit Modification

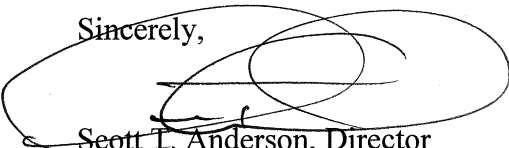
Dear Mr. Woolley:

Enclosed is the Phase D Cover Construction modification for Permit No. 9421R3 for the Trans Jordan Landfill. A 30-day comment period was held from April 26, 2013 to May 27, 2013. No comments were received. Please note that as-built drawings, signed by a professional engineer, must be submitted within 90 days of the completion of construction in accordance with R315-303-3(6) of the Utah Administrative Code.

We appreciate your efforts to operate the facility in compliance with current regulations.

If you have any questions, please call Phil Burns at (801) 536-0253.

Sincerely,



Scott T. Anderson, Director
Division of Solid and Hazardous Waste

STA/PEB/kk

Enclosure: Trans Jordan Landfill Permit Modification - Phase D Cover Construction

c: Gary Edwards, MS, Health Officer, Salt Lake Valley Health Dept.
Royal DeLegge, MPA, EHS, Environmental Health Director, Salt Lake Valley Health Dept.

**UTAH DIVISION OF AND HAZARDOUS WASTE
SOLID WASTE PERMIT RENEWAL**

**Trans-Jordan Landfill
CLASS I LANDFILL**

Pursuant to the provisions of the *Utah Solid and Hazardous Waste Act*, Title 19, Chapter 6, Part 1, Utah Code Annotated (Utah Code Ann.) 1953, as amended (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code (Utah Admin. Code) R315-301 through 320 adopted thereunder, a Permit is issued to

Trans-Jordan Cities as owner and operator, (Permittee)

to own and operate the Trans-Jordan Class I Landfill located in Section 15, Township 3 South, Range 2 West, Salt Lake Base and Meridian, Salt Lake County, Utah as shown in the Permit Renewal Application that was determined complete on December 5, 2012.

The Permittee is subject to the requirements of Utah Admin. Code R315-301 through 320 and the requirements set forth herein.

All references to Utah Admin. Code R315-301 through 320 are to regulations that are in effect on the date that this Permit becomes effective.


This Permit shall become effective February 15, 2013.

This Permit shall expire at midnight February 14, 2023.

Closure Cost Revision Date: February 15, 2018.

Signed this 7th day of February, 2013.

Modification signed this 4th day of June, 2013.



Scott T. Anderson, Director
Division of Solid and Hazardous Waste

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME: Trans-Jordan Landfill

OWNER NAME: Trans-Jordan Cities

OWNER ADDRESS: PO Box 95610
South Jordan, Utah 84095-0610

OWNER PHONE NO.: 801-569-8994

OPERATOR NAME: same as owner

OPERATOR ADDRESS: same as owner

OPERATOR PHONE NO.: same as owner

TYPE OF PERMIT: Class I Landfill

PERMIT NUMBER: 9421R3

LOCATION: Landfill site is located in Township 3 South, Range 2 West,
Section 15, SLMB; Salt Lake County, Lat. 40° 33' 37", Long. 112°
3' 42"

FACILITY ADDRESS 10873 South 7200 West South Jordan

PERMIT HISTORY Permit effective February 15, 2013
Permit modification signed June 4, 2013

PERMIT REQUIREMENTS

The term, "Permit," as used in this document is defined in Utah Admin. Code R315-301-2(55).

The renewal application (DSHW-2012-011451), as deemed complete on the date shown on the signature page of this Permit, is hereby incorporated by reference into this Solid Waste Permit and shall be referred to as the "Permit Application" throughout this Permit. The Phase D Cover Construction (DSHW 2013-002940) submitted as a permit modification is also incorporated by reference into the Permit and is included in the Permit Application referenced above. All representations made in the Permit Application are part of this Permit and are enforceable under Utah Administrative Code R315-301-5(2). The Permit Application shall become part of the operating record of the Landfill. Where differences in wording exist between this Permit and the application, the wording of this Permit supersedes that of the application.

This Permit consists of the signature page, Facility Owner/Operator Information section, sections I through V, and the Permit Application as defined above.

The facility as described in this Permit consists of scale house and maintenance building, disposal cells for all permitted waste, areas for storage of recyclable materials, green waste, and compost site.

Compliance with this Permit does not constitute a defense to actions brought under any other local, state, or federal laws. This Permit does not exempt the Permittee from obtaining any other local, state or federal permits or approvals required for the facility operation.

The issuance of this Permit does not convey any property rights, other than the rights inherent in this Permit, in either real or personal property, or any exclusive privileges other than those inherent in this Permit. Nor does this Permit authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations including zoning ordinances.

The provisions of this Permit are severable. If any provision of this Permit is held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this Permit to any circumstance is held invalid, its application to other circumstances shall not be affected.

By this Permit, the Permittee is subject to the following conditions.

I. GENERAL COMPLIANCE RESPONSIBILITIES

A. General Operation

The Permittee shall operate the landfill in accordance with all applicable requirements of Utah Admin. Code R315-301 through 320, for a Class I landfill, that are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Annotated 19-6-101 through 123 and applicable portions of Utah Admin. Code R315-301 through 320 constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, or denial of a permit renewal application.

B. Acceptable Waste

This Permit is for the disposal of non-hazardous solid waste that may include:

1. Municipal solid waste;
2. Commercial waste;

3. Industrial waste;
4. Construction/demolition waste;
5. Special waste as allowed by Utah Admin. Code R315-315 and authorized in section III-I of this Permit and limited by this section; and
6. Conditionally exempt small quantity generator hazardous waste as specified in Utah Admin. Code R315-303-4(7)(a)(i)(B) and PCB's as specified by Utah Admin. Code R315-315-7(2).

C. Prohibited Waste

1. Hazardous waste as defined by Utah Admin. Code R315-1 and R315-2 except as allowed in permit condition I-B6 (Acceptable Waste) above;
2. Containers larger than household size (five gallons) holding any liquid, non-containerized material containing free liquids or any waste containing free liquids in containers larger than five gallons;
3. PCB's as defined by Utah Admin. Code R315-301-2, except as allowed in Section I-B (Acceptable Waste) of this Permit;
4. Regulated asbestos-containing material.

Any prohibited waste received and accepted for treatment, storage, or disposal at the facility shall constitute a violation of this Permit, of Utah Code Annotated 19-6-101 through 123 and of Utah Admin. Code R315-301 through 320.

D. Inspections and Inspection Access

The Permittee shall allow the Director of the Utah Division of Solid and Hazardous Waste or an authorized representative, or representatives from the Salt Lake Valley Health Department, to enter at reasonable times and:

1. Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or Utah Admin. Code R315-301 through 320;
2. Have access to and copy any records required to be kept under the terms and conditions of this Permit or Utah Admin. Code R315-301 through 320;
3. Inspect any loads of waste, treatment facilities or processes, pollution management facilities or processes, or control facilities or processes

required under this Permit or regulated under Utah Admin. Code R315-301 through 320; and

4. Create a record of any inspection by photographic, video, electronic, or any other reasonable means.

E. Noncompliance

If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under Utah Admin. Code R315-301 through 320 may be or is being violated, the Permittee shall promptly make corrections to the operation or other activities to bring the facility into compliance with all permit conditions or rules.

In the event of noncompliance with any permit condition or violation of an applicable rule, the Permittee shall promptly take any feasible action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing of warning signs, or permanently closing areas of the facility.

The Permittee shall:

1. document the noncompliance or violation in the operating record, on the day the event occurred or the day it was discovered;
2. notify the Director of the Utah Division of Solid and Hazardous Waste by telephone within 24 hours, or the next business day following documentation of the event; and
3. give written notice of the noncompliance or violation and measures taken to protect human health and the environment within seven days of Director notification.

Within thirty days of the documentation of the event, the Permittee shall submit to the Director a written report describing the nature and extent of the noncompliance or violation and the remedial measures taken or to be taken to protect human health and the environment and to eliminate the noncompliance or violation. Upon receipt and review of the assessment report, the Director may order the Permittee to perform appropriate remedial measures including development of a site remediation plan for approval by the Director.

In an enforcement action, the Permittee may not claim as a defense that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with Utah Admin. Code R315-301 through 320 and this Permit.

F. Revocation

This Permit is subject to revocation if any condition of this Permit is not being met. The Permittee shall be notified in writing prior to any proposed revocation action and such action shall be subject to all applicable hearing procedures established under Utah Admin. Code R315-12 and the *Utah Administrative Procedures Act*.

As part of the revocation the Director shall exercise the option to require payment of funds under the financial assurance mechanism held by the Director.

G. Attachment Incorporation

Attachments to the Permit Application are incorporated by reference into this Permit and are enforceable conditions of this Permit, as are documents incorporated by reference into the attachments. Language in this Permit supersedes any conflicting language in the attachments or documents incorporated into the attachments.

II. DESIGN AND CONSTRUCTION

A. Design and Construction

The Permittee shall construct any landfill cell, sub-cell, run-on diversion system, runoff containment system, waste treatment facility, leachate handling system, or final cover in accordance with the equivalent design submitted as part of the Permit Application and in accordance with the Utah Admin. Code R315-301 thru 320.

Prior to construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, leachate handling system, or final cover the Permittee shall submit construction design drawings and a Construction Quality Control and Construction Quality Assurance (CQC/CQA) Plan to the Director for approval. Buildings do not require approval. The Permittee shall construct any landfill cell, sub-cell, cell liner, engineered control system, waste treatment facility, leachate handling system, and final cover in accordance with the design drawings and CQC/CQA Plans submitted to and approved by the Director.

Subsequent to construction the Permittee shall notify the Director of completion of construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, or final cover. Landfill cells may not be used for treatment or disposal of waste until all CQC/CQA documents and construction related documents including as-built drawings are approved by the Director. The Permittee shall submit as-built drawings for each construction event that are signed and sealed by an engineer registered in the State of Utah.

The Permittee shall notify the Director of any proposed incremental closure, placement of any part of the final cover, or placement of the full final cover. Design approval must be received from the Director prior to construction and shall be accompanied by a CQC/CQA Plan, for each construction season where incremental or final closure is performed.

A qualified party, independent of the owner and the construction contractor shall perform the quality assurance function on liner components, cover components, and other testing as required by the approved CQC/CQA Plan. The results shall be submitted to the Director as part of the as-built drawings.

All engineering drawings submitted to the Director shall be stamped and approved by a professional engineer with a current registration in Utah.

If ground water is encountered during excavation of the landfill, the Director shall be notified immediately, and a contingency plan implemented or alternative construction design developed and submitted for approval.

B. Run-On Control

Drainage channels and diversions shall be constructed as specified in the Permit Application and maintained at all times to effectively prevent runoff from the surrounding area from entering the landfill.

C. Equivalent Design

The Permittee proposed a landfill liner design that uses a geosynthetic clay liner in place of the clay component of the liner required by Utah Admin. Code R315-303-3(3)(a)(ii). The proposed liner is approved.

III. LANDFILL OPERATION

A. Operations Plan

The Operations Plan included in the Permit Application shall be kept onsite at the landfill or at the location designated in section III-K of this Permit. The landfill shall be operated in accordance with the operations plan. If necessary, the facility owner may modify the Operations Plan, provided that the modification meets all of the requirements of Utah Admin. Code R315-301 through 320, is as protective of human health and the environment as the Operations Plan approved as part of this Permit, and is approved by the Director as a minor modification under Utah Admin. Code R315-311-2(1)(a)(xiii). Any modification to the Operations Plan shall be noted in the operating record.

Any modification to the Operations Plan shall be submitted to the Director for approval.

B. Security

The Permittee shall operate the Landfill so that unauthorized entry to the facility is restricted. All facility gates and other access routes shall be locked during the time the landfill is closed. At least two persons employed by the Permittee shall be at the landfill during all hours that the landfill is open. Fencing and any other access controls as shown in the Permit Application shall be constructed to prevent access by persons or livestock by other routes.

C. Training

The Permittee shall provide training for on-site personnel in landfill operation, including waste load inspection, hazardous waste identification, and personal safety and protection.

D. Burning of Waste

Intentional burning of solid waste is prohibited and is a violation of Utah Admin. Code R315-303-4(2)(b). All accidental fires shall be extinguished as soon as reasonably possible.

E. Daily Cover

The solid waste received at the landfill shall be completely covered at the end of each working day with a minimum of six inches of earthen material.

An alternative daily cover material may be used when the material and operation meets the requirements of Utah Admin. Code R315-303-4(4)(b) through (e).

An alternative daily cover material consisting of wood chips from the grinding of green waste is approved and shall meet the following requirements:

1. Apply standard daily cover (min. 6 inches of soil) at least once per week.
2. Apply standard daily cover any time the daily cover will be exposed for greater than 24 hours.
3. Apply standard daily cover when weather conditions (e.g., wind, rain, etc.) prevent proper use of alternate daily cover.
4. Record alternative daily cover use dates in the facility daily operating log.

5. Permission to use alternative daily cover may be rescinded or amended if the requirements to prevent blowing debris, minimize access to the waste by vectors, minimize the threat of fires at the open face, minimize odors, or shed precipitation are not met, or if necessary to prevent nuisance conditions or adverse impacts to human health and or the environment.

F. Ground Water Monitoring

The Permittee shall monitor the ground water underlying the landfill in accordance with the Modified Corrective Action Plan approved by the Division of Solid and Hazardous Waste in January 2004. If necessary, the facility owner may modify the Modified Corrective Action Plan, provided that the modification meets all of the requirements of Utah Admin. Code R315-301 through 320 and is as protective of human health and the environment as that approved in the Permit Application, and is approved by the Director as a minor modification under Utah Admin. Code R315-311-2(1)(a). Any modification to the Modified Corrective Action Plan shall be noted in the operating record. Plan changes that are found by the Director to be less protective of human health or the environment than the approved plan are a major modification and are subject to the requirements of Utah Admin. Code R315-311.

G. Gas Monitoring

The Permittee shall monitor explosive gases at the landfill in accordance with the Gas Monitoring Plan contained in the Permit Application and shall otherwise meet the requirements of Utah Admin. Code R315-303-3(5). If necessary, the Permittee may modify the Gas Monitoring Plan, provided that the modification meets all of the requirements of Utah Admin. Code R315-301 through 320 and is as protective of human health and the environment as that approved in the Permit Application, and is approved by the Director as a minor modification under Utah Admin. Code R315-311-2(1). Any modification to the Gas Monitoring Plan shall be noted in the operating record. Plan changes that are found by the Director to be less protective of human health or the environment than the approved plan are a major modification and are subject to the requirements of Utah Admin. Code R315-311.

If the concentrations of explosive gases at any of the facility structures, at the property boundary, or beyond the property boundary ever exceed the standards set in Utah Admin. Code R315-303-2(2)(a), the Permittee shall:

1. immediately take all necessary steps to ensure protection of human health and notify the Director;
2. within seven days of detection, place in the operating record the explosive gas levels detected and a description of the immediate steps taken to protect human health;

3. implement a remediation plan that meets the requirements of Utah Admin. Code R315-303-3(5)(b); and
4. submit the plan to, and receive approval from, the Director prior to implementation.

H. Waste Inspections

The Permittee shall visually inspect incoming waste loads to verify that no wastes other than those allowed by this permit are disposed in the landfill. A complete waste inspection shall be conducted at a minimum frequency of 1% of incoming loads, but no less than one complete inspection per day. Loads to be inspected shall be selected on a random basis.

All loads suspected or known to have one or more containers capable of holding more than five gallons of liquid shall be inspected to ensure that each container is empty.

All loads that the operator suspects may contain a waste not allowed for disposal at the landfill shall be inspected.

Complete random inspections shall be conducted as follows:

1. The operator shall conduct the random waste inspection at the working face or an area designated by the operator.
2. Loads subjected to complete inspection shall be unloaded at the designated area;
3. Loads shall be spread by equipment or by hand tools;
4. A visual inspection of the waste shall be conducted by personnel trained in hazardous waste recognition and recognition of other unacceptable waste; and
5. The inspection shall be recorded on the waste inspection form in Appendix C of the Permit Application. The form shall be placed in the operating record at the end of the operating day.

I. Disposal of Special Wastes

If a load of incinerator ash is accepted for disposal it shall be transported in such a manner to prevent leakage or the release of fugitive dust. The ash shall be completely covered with a minimum of six inches of material, or use other methods

or material, if necessary, to control fugitive dust. Ash may be used for daily cover when its use does not create a human health or environmental hazard.

J. Self-Inspections

The Permittee shall inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes or contaminated materials to the environment or create a threat to human health or the environment. These general inspections shall be completed no less than quarterly and shall cover the following areas: Waste placement, compaction, cover; cell liner; leachate systems; fences and access controls; roads; run-on/run-off controls; ground water monitoring wells; final and intermediate cover; litter controls; and records. A record of the inspections shall be placed in the daily operating record on the day of the inspection. Areas needing correction, as noted on the inspection report, shall be corrected in a timely manner. The corrective actions shall be documented in the daily operating record.

K. Recordkeeping

The Permittee shall maintain and keep on file at the landfill office a daily operating record and other general records of landfill operation as required by Utah Admin. Code R315-302-2(3). The landfill operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. Each record to be kept shall contain the signature of the appropriate operator or personnel and the date signed.

1. The daily operating record shall include the following items:
 - a. The number of loads of waste and the weights or estimates of weights or volume of waste received each day of operation and recorded at the end of each operating day;
 - b. Major deviations from the approved plan of operation recorded at the end of the operating day the deviation occurred;
 - c. Results of other monitoring required by this Permit recorded in the operating record on the day of the event or the day the information is received;
 - d. Records of all inspections conducted by the Permittee, results of the inspections, and corrective actions taken shall be recorded in the record on the day of the event.
2. The general record of landfill operations shall include the following items:
 - a. A copy of this Permit including the Permit Application;

- b. Results of inspections conducted by representatives of the Utah Solid and Hazardous Waste Control Board and/or representatives of the Salt Lake Valley Health Department, when forwarded to the Permittee;
- c. Closure and Post-closure care plans;
- d. Records of employee training;
- e. Results of groundwater monitoring; and
- f. Results of landfill gas monitoring.

L. Reporting

The Permittee shall prepare and submit, to the Director, an Annual Report as required in Utah Admin. Code R315-302-2(4). The Annual Report shall include: the period covered by the report, the annual quantity of waste received, an annual update of the financial assurance mechanism, any leachate analysis results, all ground water monitoring results, the statistical analysis of ground water monitoring results, the results of gas monitoring, the quantity of leachate pumped, and all training programs completed.

M. Roads

All access roads within the landfill boundary that are used for transporting waste to the landfill for disposal shall be improved and maintained as necessary to assure safe and reliable all-weather access to the disposal area.

N. Litter Control

The landfill owner or operator shall minimize litter resulting from operations of the landfill. In addition to the litter control plans found in Part II Section 3.9 of the Permit Application, the owner and operator shall implement the following procedures when high wind conditions are present.

- 1. Reduce the size of the tipping face;
- 2. Reduce the number of vehicles allowed to discharge at the tipping face at one time;
- 3. Orient vehicles to reduce wind effects on unloading and waste compaction;
- 4. Reconfigure tipping face to reduce wind effect;

5. Use portable and permanent wind fencing as needed; and
6. Should high winds present a situation that the windblown litter cannot be controlled, the Permittee shall cease operations of the landfill until the winds diminish.

IV. CLOSURE REQUIREMENTS

A. Closure

Final cover of the landfill shall be as shown in the Permit Application. The final cover shall meet, at a minimum, the standard design for closure as specified in the Utah Admin. Code R315-303-3(4) plus sufficient cover soil or equivalent material to protect the low permeability layer from the effects of frost, desiccation, and root penetration. A quality assurance plan for construction of the final landfill cover shall be submitted to the Director, and approval of the plan shall be received from the Director prior to construction of any part of the final cover at the landfill. A qualified person not affiliated with the Permittee or the construction contractor shall perform construction quality assurance testing on the final cover.

B. Title Recording

The Permittee shall meet the requirements of Utah Admin. Code R315-302-2(6) by recording a notice with the Salt Lake County Recorder as part of the record of title that the property has been used as a landfill. The notice shall include waste disposal locations and types of waste disposed. The Permittee shall provide the Director the notice as recorded.

C. Post-Closure Care

Post-closure care at the closed landfill shall be done in accordance with the Post-Closure Care Plan contained in the Permit Application. Post-closure care shall continue until all waste disposal sites at the landfill have stabilized and the finding of Utah Admin. Code R315-302-3(7)(c) is made.

D. Financial Assurance

The Permittee shall keep in effect and active the currently approved financial assurance mechanism or another approved mechanism that meets the requirements of Utah Admin. Code R315-309 to cover the costs of closure and post-closure care at the landfill. The financial assurance mechanism(s) shall be adequately maintained to provide for the cost of closure and post-closure care at any stage or phase or anytime during the life of the landfill or the permit life, whichever is shorter.

With each annual revision of the closure and post-closure care cost estimate, the annual payments to be made to the trust fund shall be determined by the following formula:

$$NP=[CE-CV]/Y$$

where NP is the next payment, CE is the current cost estimate for closure and post-closure care (updated for inflation or other changes), CV is the current value of the trust fund, and Y is the number of years remaining in the pay-in period.

E. Financial Assurance Annual Update

The Permittee shall submit an annual revision of closure and post-closure costs for inflation and financial assurance funding as required by Utah Admin. Code R315-309-2(2), to the Director as part of the annual report.

F. Closure Cost and Post-Closure Cost Revision

The Permittee shall submit a complete revision of the closure and post-closure cost estimates by the Closure Cost Revision Date listed on the signature page of this Permit and any time the facility is expanded, any time a new cell is constructed, or any time a cell is expanded.

V. ADMINISTRATIVE REQUIREMENTS

A. Permit Modification

Modifications to this Permit may be made upon application by the Permittee or by the Director. The Permittee shall be given written notice of any permit modification initiated by the Director.

B. Permit Transfer

This Permit may be transferred to a new permittee or new permittees by complying with the permit transfer provisions specified in Utah Admin. Code R315-310-11.

C. Expansion

This Permit is for a Class I Landfill. The permitted landfill shall operate according to the Operation Plan provided in the Permit Application. Any expansion of the current footprint designated in the Permit Application, but within the property boundaries designated in the Permit Application, shall require submittal of plans and specifications to the Director. The plans and specifications shall be approved by the Director prior to construction.

Any expansion of the landfill facility beyond the property boundaries designated in the description contained in the Permit Application shall require submittal of a new permit application in accordance with the requirements of Utah Admin. Code R315-310.

Any addition to the acceptable wastes described in Section I-B shall require submittal of all necessary information to the Director and the approval of the Director. Acceptance for PCB bulk product waste under Utah Admin. Code R315-315-7(3)(b) can only be done after submittal of the required information to the Director and modification of Section I-C of this Permit.

D. Expiration

Application for permit renewal shall be made at least six months prior to the expiration date, as shown on the signature (cover) page of this Permit. If a timely renewal application is made and the permit renewal is not complete by the expiration date, this Permit shall continue in force until renewal is completed or denied.