

**MEMORANDUM**

**TO:** Board of Trustees

**THROUGH:** Indra Winqest  
District General Manager

Paul Navazio  
Director of Finance

**FROM:** Mike Bandelin  
Diamond Peak General Manager

**SUBJECT:** Review, discuss and possibly approve a Sole Source Finding, **and** review, discuss and possibly authorize a professional services contract for the Lakeview ski lift gear reducer service and rebuild; 2021/2022 Capital Improvement Project: Fund: Community Services; Program: Ski; Project # 3462HE1702; Vendor: Artec Machine Systems, Inc. in the amount of \$72,617

**DATE:** July 1, 2021

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**I. RECOMMENDATION**

That the Board of Trustees makes a motion to:

1. Make the following finding:

IVGID's contract with Artec Machine Systems for professional services to overhaul the Lakeview ski lift gear reducer is exempt from competitive bidding for the following reasons:

- A. This purchase is for items which may only be contracted from a sole source (NRS 332.115.1.a). Artec Machine Systems is the authorized service partner for ZF/Lohmann ropeway gear units and Doppelmayr ski lift manufacturer.
- B. This purchase is for additions to and repairs and maintenance of equipment which may be more effectively added to, repaired or maintained by a certain person (NRS 332.115.1.C). Diamond Peak's

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ski lift gear reducers, for the Lakeview, Lodgepole and Crystal Express lifts, are manufactured by ZF/Lohmann and sold by Doppelmayr.

- C. The contract proposed for purchase, by virtue of the training of the personnel or of any inventory of replacement parts maintained by the local government, is compatible with existing equipment (NRS 332.115.1.d). The District owns three ZF/Lohmann ropeway gear units.
2. Award a professional services contract for the Lakeview ski lift gear reducer service and rebuild; 2021/2022 Capital Improvement Project: Fund: Community Services; Program: Ski; Project # 3462HE1702; Vendor: Artec Machine Systems, Inc., in the amount of \$72,617.
3. Authorize Staff to execute all purchase documents based on a review by Legal Counsel and Staff.

## II. **BACKGROUND**

The general purpose of this project is to maintain District operations through the necessary maintenance and replacement cycles. The contract proposed for award addresses the required maintenance, service and refurbishment to Diamond Peak's existing Lakeview ski lift gear reducer.

Diamond Peak operates and maintains a total of seven lifts, five fixed grip chairlifts installed between 1969 and 1996, one detachable chairlift installed in 2003 and one surface lift installed in 1996.

The Lakeview fixed grip quad lift was installed in 1995 and currently has provided 27,000 hours of service. During routine off-season maintenance in 2019, a visual inspection of the internal gear components of the ski lift gear reducer was performed by Artec Machine Systems. The inspection revealed wear and indications to the high and low speed planetary gear sets including technical information that assisted in the planning and budgeting of the proposed project.

Most ski lifts incorporate the use of a gear reducer to power the rotation of the drive bullwheel that moves the haul rope. The Lakeview ski lift is powered by a horizontal electric motor that turns a shaft to 1,750 revolutions per minute at full speed. This motor shaft is coupled to the input shaft of the gear reducer through a universal

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joint drive shaft. The gear reducer is equipped with the high-speed horizontal input shaft along with a braking disc and a gear set that rotates the direction and speed to a vertical low speed shaft that through a set of bearings connects to the drive bullwheel. This gear reducer unit will reduce the input shaft speed of 1,750 rpm's to a bullwheel speed of 12 rpm's, or a haul rope speed of 494 feet per minute.

Additionally, Doppelmayr ski lifts recommends ZF/Lohmann gear reducers be disassembled and serviced per the manufacturer guidelines after 26,000 hours of service. If the proposed project is approved, Artec Machine Systems will submit the order for the replacement gear sets and parts and have indicated that the lead-time for delivery will be sixteen to eighteen weeks.

### III. **BID RESULTS**

The proposed professional services contract, in compliance with NRS 332.115, is a sole source and Staff did not seek competitive bids for the proposed work. Specific pricing is as listed below:

<b>Description</b>	<b>Amount</b>
Artec Professional Services	\$17,416.50
ZF/Lohmann gear reducer replacement parts	\$51,400.50
Shipping - parts	\$3,800.00
Total contract	\$72,617.00

### IV. **FINANCIAL IMPACT AND BUDGET**

A total of \$75,000 is included in the 2021/2022 Capital Improvement Program Budget for the Lakeview ski lift gear reducer service and overhaul under Project 3462HE1702 (see attached data sheet). The total proposed project is within the budgeted amount.

### V. **ALTERNATIVES**

The Board of Trustees could not authorize the professional services contract and defer or eliminate maintenance of the proposed gear reducer overhaul. Doing so puts the District at risk of high maintenance expenses and increased ski lift down time or complete loss of usage during Diamond Peak's operating season.

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## **VI. BUSINESS IMPACT**

This item is not a "rule" within the meaning of Nevada Revised Statutes, Chapter 237, and does not require a Business Impact Statement.

## **VII. ATTACHMENTS**

- A. Contract documents – SFA - Artec Machine System and IVGID – Quote No. ZPY19361
- B. Artec Machine Stytems – Lakeview Gear Reducer – service report September 26, 2019
- C. IVGID project summary #3462HE1702 data sheet
- D. District Purchase Order

**SHORT FORM AGREEMENT**  
Between  
**INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT**  
and  
**ARTEC MACHINE SYSTEMS, INC.**  
for  
**CONSTRUCTION SERVICES**

This Agreement is made as of date between **INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT (IVGID)**, hereinafter referred to as "Owner," and **ARTEC MACHINE SYSTEMS, INC. of North Branford, Connecticut**, hereinafter referred to as "Contractor." Owner intends to complete the Project(s) as described in the Contract Documents and as amended from time to time, hereinafter referred to as the "Project."

**ARTICLE 1 – PRELIMINARY MATTERS**

**1.1** Contractor shall perform the following tasks:

Services as described in the Contract Documents included with this Agreement, basically consisting of gear reducer service and rebuild for the Lakeview Lift at Diamond Peak Ski Resort, 1210 Ski Way, Incline Village, Washoe County, Nevada.

**1.2** All documentation, drawings, reports, and invoices submitted for this project should include IVGID's project number 3462HE1702.

**1.3** The Project will begin on or about date and be completed by date.

**ARTICLE 2 – CONTRACT DOCUMENTS: INTENT, AMENDING, REFUSE**

**2.1** This Agreement consists of the following Contract Documents:

- A. This Short Form Agreement, pages 1 through 9, inclusive
- B. Contractor's Bid submitted on March 10, 2021 and revised June 30, 2021.
- C. By reference herein, Contractor to follow requirements of the Incline Village Ordinances and the *Standard Specification for Public Works Construction* (aka the Orange Book)

**2.2** In order to induce Owner to enter into this Agreement, Contractor makes the following representations:

- A. Contractor has examined and carefully studied the project details and technical specifications, and any other related data identified in the Contract Documents.

- B. Contractor has visited the site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, and performance of the Project.
- C. Contractor is familiar with and is satisfied as to all federal, state, and local laws and regulations that may affect cost, progress, and performance of the Project.
- D. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and underground facilities) at or contiguous to the site which may affect cost, progress, or performance of the Project or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by Contractor, and safety precautions and programs incident thereto.
- E. Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Project at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- F. Contractor is aware of the general nature of work to be performed by Owner and others at the site that relates to the work, as indicated in the Contract Documents.
- G. Contractor has correlated the information known to Contractor, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- H. Contractor has given Owner's representative written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Owner's representative is acceptable to Contractor.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the work.

### ARTICLE 3 – INSURANCE REQUIREMENTS

- 3.1 **Commercial Insurance:** Contractor shall procure and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his/her agents, representatives, employees, or subcontractors. Contractor shall purchase General Liability, Auto Liability, Workers' Compensation, and Professional Liability Insurance (if applicable) coverage as required.
- 3.2 **General Liability:** Contractor shall purchase General Liability including appropriate Auto Liability with a \$1,000,000 combined single limit per occurrence, for bodily injury, personal injury and property damage. Contractor shall have a Certificate of Insurance issued to the

INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT naming it as additional insured, and indicating coverage types, amounts and duration of the policy.

- 3.3 **Workman's Compensation:** It is understood and agreed that there shall be no Industrial Insurance coverage provided for the Contractor or any Subcontractor by the District; and in view of NRS 616.280 and 617.210 requiring that Contractor comply with the provisions of Chapters 616 and 617 of NRS, Contractor shall, before commencing work under the provisions of this Agreement, furnish to the District a Certificate of Insurance from an admitted insurance company in the State of Nevada.
- 3.4 All certificates shall provide for a minimum written notice of thirty (30) days to be provided to District in the event of material change, termination or non-renewal by either Contractor or carrier.

#### **ARTICLE 4 – CONTRACTOR’S RESPONSIBILITIES**

##### **4.1 Equal Employment and Non-Discrimination**

In connection with the Services under this Agreement, Contractor agrees to comply with the applicable provisions of State and Federal Equal Opportunity statutes and regulations.

##### **4.2 Licenses**

Contractor shall have a Washoe County business license, and all appropriate Contractor’s licenses and certifications for the services to be performed.

##### **4.3 Construction Dumpsters**

Contractor is to be aware of District’s Ordinance 1, the Solid Waste Ordinance, and pay specific attention to Section 4.5, Dumpster Use, Location and Enclosure. Any construction dumpster on the job site that is not properly enclosed shall be a fully locking roll-top, and is to remain locked and secured at all times.

##### **4.4 Working Hours**

Working hours, including equipment “warm up,” shall occur between 8 a.m. and 7 p.m. Monday through Friday. Only emergency work may occur on Saturdays, with prior approval of Owner.

##### **4.5 Changes and Modifications**

The parties agree that no change or modification to this Agreement, or any attachments hereto, shall have any force or effect unless the change is reduced to writing, dated, and made a part of this Agreement. The execution of the change shall be authorized and signed in the same manner as this Agreement.

#### **4.6 Contractor's General Warranty and Guarantee**

- A. Contractor warrants and guarantees to Owner that all work will be in accordance with the Contract Documents and will not be defective. Owner's representative and its Related Entities shall be entitled to rely on representation of Contractor's warranty and guarantee.
- B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
  - 1. Abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
  - 2. Normal wear and tear under normal usage.
- C. Contractor's obligation to perform and complete the Project in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the work in accordance with the Contract Documents:
  - 1. Observations by Owner's representative;
  - 2. Recommendation by Owner's representative or payment by Owner of any progress or final payment;
  - 3. The issuance of a certificate of substantial completion by Owner's representative or any payment related thereto by Owner;
  - 4. Use or occupancy of the Project or any part thereof by Owner;
  - 5. Any review and approval of a shop drawing or sample submittal or the issuance of a notice of acceptability by Owner's representative;
  - 6. Any inspection, test, or approval by others; or
  - 7. Any correction of defective work by Owner.

#### **4.7 Correction Period**

- A. If within one year after the date of substantial completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by laws and regulations as contemplated in Article 8.5 is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
  - 1. Repair such defective land or areas; or
  - 2. Correct such defective work; or
  - 3. If the defective work has been rejected by Owner, remove it from the Project and replace it with work that is not defective, and
  - 4. Satisfactorily correct or repair or remove and replace any damage to other work, to the work of others or other land or areas resulting therefrom.



- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective work corrected or repaired or may have the rejected work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Contractor.
- C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Project, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- D. Where defective work (and damage to other work resulting therefrom) has been corrected or removed and replaced under this Article 4.7, the correction period hereunder with respect to such work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- E. Contractor's obligations under this Article 4.7 are in addition to any other obligation or warranty. The provisions of this Article 4.7 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

#### **4.8 Indemnification**

- A. Indemnification of Owner by Contractor: To the extent permitted by law, Contractor agrees to indemnify and hold Owner and each of its officers, employees, agents, and representatives harmless from any claims, damage, liability, or costs (including reasonable attorneys' fees and costs of defense) stemming from this project to the extent such claims, damage, liability, or costs are caused by Contractor's negligent acts, errors or omissions or by the negligent acts, errors, or omissions of Contractors, subcontractors, agents, or anyone acting on behalf of or at the direction of Contractor.
- B. Contractor's obligation to hold harmless and indemnify Owner shall include reimbursement to Owner of the loss of personnel productivity, incurred as a result of that defense. Reimbursement for the time spent by Owner's personnel shall be charged to Contractor at the then-current rate charged for such services by the private sector.
- E. Nothing herein shall prevent Owner or Contractor from relying upon any Nevada statute or case law that protects Owner or Contractor with respect to liability or damages. This Provision shall survive the termination, cancellation, or expiration of the Agreement.

### **ARTICLE 5 – OWNER'S RESPONSIBILITIES**

- 5.1 Owner shall do the following in a timely manner so as not to delay the services of Contractor:

- A. Designate in writing a person to act as Owner's representative with respect to services to be rendered under this Agreement. Such person shall have complete authority to transmit instructions, receive information, and interpret and define Owner's policies and decisions with respect to Contractor's services for the Project.
- B. Assist Contractor by placing at Contractor's disposal existing data, plans, reports, and other information known to, in possession of, or under control of Owner which are relevant to the execution of Contractor's duties on the PROJECT. Also, provide all criteria and full information as to Owner's requirements for the Project, including design criteria, objectives, and constraints, space, capacity and performance requirements, flexibility and expandability, and any budgetary limitations.

## ARTICLE 6 – PAYMENT TO CONTRACTOR AND COMPLETION

### 6.1 Basis and Amount of Compensation for Basic Services

- A. Lump Sum. Owner shall pay Contractor for the Project as follows:
  - 1. A Lump Sum amount of **Seventy-Two Thousand Six Hundred Seventeen Dollars (\$72,617.00)** ("Contract Price").
  - 2. In addition to the Lump Sum amount, reimbursement of the following expenses: None.
  - 3. The portion of the compensation amount billed monthly for Contractor's services will be based upon Contractor's estimate of the percentage of the total services actually completed during the billing period.

### 6.2 Payment Procedures

- A. Submittal and Processing of Payments:
  - 1. Invoices shall be sent to [invoices@ivgid.org](mailto:invoices@ivgid.org) with a copy to [rlr@ivgid.org](mailto:rlr@ivgid.org).
  - 2. Upon final completion and acceptance of the Project, Owner shall pay the Contract Price, as recommended by Owner's representative.

## ARTICLE 7 – DISPUTE RESOLUTION

### 7.1 Arbitration

This Agreement to engage in alternate dispute resolution ("ADR") pursuant to NRS 338.150 and any other Agreement or consent to engage in ADR entered into in accordance herewith as provided in this Article 16 will be specifically enforceable under the prevailing Nevada law in the Second Judicial District Court of the State of Nevada in and for the County of Washoe. Any dispute arising under this contract will be sent to mediation. Any mediation shall occur in Incline Village, Washoe County, Nevada. The mediation shall be conducted through the American Arbitration Association (AAA) and be governed by the AAA's Mediation Procedures.

The mediator is authorized to conduct separate or ex parte meetings and other communications with the parties and/or their representatives, before, during and after any scheduled mediation conference. Such communications may be conducted via telephone, in writing, via email, online, in person or otherwise.

Owner and Contractor are encouraged to exchange all documents pertinent to the relief requested. The mediator may request the exchange of memorandum on all pertinent issues. The mediator does not have the authority to impose a settlement on the parties but such mediator will attempt to help Owner and Contractor reach a satisfactory resolution of their dispute. Subject to the discretion of the mediator, the mediator may make oral or written recommendations for settlement to a party privately, or if the parties agree, to all parties jointly.

Owner and Contractor shall participate in the mediation process in good faith. The mediation process shall be concluded within sixty (60) days of a mediator being assigned.

In the event of a complete settlement of all or some issues in dispute is not achieved within the scheduled mediation session(s), the mediator may continue to communicate with the parties, for a period of time, in an ongoing effort to facilitate a complete settlement. Any settlement agreed upon during mediation shall become binding if within thirty (30) days after the date that any settlement agreement is signed, either the Owner or Contractor fails to object or withdraw from the agreement. If mediation shall be unsuccessful, either Owner or Contractor may then initiate judicial proceedings by filing suit. Owner and Contractor will share the cost of mediation equally unless agreed otherwise.

## **ARTICLE 8 – MISCELLANEOUS**

### **8.1 Successors and Assigns**

- A. The parties hereby bind their respective partners, successors, executors, administrators, legal representatives, and, to the extent permitted by law, their assigns, to the terms, conditions, and covenants of this Agreement.
- B. Neither Owner nor Contractor shall assign, sublet, or transfer any rights under or interest in this Agreement (including, but without limitation, monies that may become due or monies that are due) without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated by law or the effect of this limitation may be restricted by law.
- C. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement. Nothing contained in this paragraph shall prevent Contractor from employing such independent professional associates, subcontractors, and Contractors as Contractor may deem appropriate to assist in the performance of Services.
- D. Except as may be expressly stated otherwise in this Agreement, nothing under this Agreement shall be construed to give any rights or benefits in this Agreement to anyone other than Owner and Contractor, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Contractor and not for the benefit of any other party.

## **8.2 Severability**

In the event any provision of this Agreement shall be held invalid and unenforceable, the remaining provisions shall be valid and binding upon the parties.

## **8.3 Waiver**

One or more waivers by either party of any provision, term, condition, or covenant shall not be construed by the other party as a waiver of a subsequent breach of the same by the other party.

## **8.4 Extent of Agreement**

This Agreement, including all Exhibits, and any and all amendments, modifications, and supplements duly executed by the parties in accordance with this Agreement, govern and supersede any and all inconsistent or contradictory terms, prior oral or written representations or understandings, conditions, or provisions set forth in any purchase orders, requisition, request for proposal, authorization of services, notice to proceed, or other form or document issued by Owner with respect to the Project or Contractor's services.

## **8.5 Controlling Law**

This Agreement is to be governed by and construed in accordance with the Laws of the State of Nevada.

**IN WITNESS WHEREOF**, the parties hereto have set their hands the day and date of the year first set forth above.

**OWNER:**  
**INCLINE VILLAGE G. I. D.**  
**Agreed to:**

**CONTRACTOR:**  
**ARTEC MACHINE SYSTEMS, INC.**  
**Agreed to:**

By: \_\_\_\_\_  
Mike Bandelin  
General Manager, Diamond Peak

By: \_\_\_\_\_  
*Signature of Authorized Agent*

\_\_\_\_\_  
*Print or Type Name and Title*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Date*

**Reviewed as to Form:**

\_\_\_\_\_  
Joshua Nelson  
District General Counsel

If Contractor is a corporation, attach evidence of authority to sign.

\_\_\_\_\_  
*Date*

Owner's address for giving notice:  
**INCLINE VILLAGE G. I. D.**  
893 Southwood Boulevard  
Incline Village, Nevada 89451  
775-832-1267- Engineering Div. Phone

Contractor's address for giving notice:  
**ARTEC Machine Systems, Inc.**  
2 Commerce Drive  
North Branford, CT 06471  
203-484-2002



26 Commerce Drive, North Branford, CT 06471

Quote No: ZPY19361

Tel: (203)-484-2002 E-mail: information@artec-machine.com  
www.artec-machine.com

**QUOTE**

<b>Customer</b>	
Company	Incline Village/Diamond Peak Ski Resort
Address	1210 Ski Way
City	Incline Village State/Prov: NV P code 89451
Phone	775-832-1265
Name	John Olsen
Email	<a href="mailto:jgo@ivqid.org">jgo@ivqid.org</a>

Original Date	10-Mar-21
Rev Date	3-Jun-21
	<b>30-Jun-21</b>
Customer ref	Lakeview

Item	Description	Qty	Unit Price	TOTAL
	Lohman GPW 210 SL 138 21800_2390			
1.0	Level one rebuild Kit 1 Year Warranty	1	\$ 32,090.50	\$ 32,090.50
2.0	Set of High Speed Planets (contains 3 planets) 1 year Warranty	1	\$ 12,950.00	\$ 12,950.00
3.0	High Speed Sun Gear Shaft 1 year Warranty	1	\$ 6,360.00	\$ 6,360.00
4.0	Import Shipping and Customs	1	\$ 3,800.00	\$ 3,800.00
4.0	Artec Service estimated 5 ten hour Days Includes all travel expenses.	1	\$ 17,416.50	\$ 17,416.50
<p><b>***Delivery 16-18 weeks Witten, Germany**</b> 50% Down payment on Parts only <b>All Import Shipping and customs included on this quotation</b></p>				

SubTotal \$ 72,617.00

Shipping Included

Tax Rate(s) as applicable

**TOTAL, USD \$ 72,617.00**

Special instructions: \_\_\_\_\_

Name \_\_\_\_\_

CC # \_\_\_\_\_

Exp & Sec code: \_\_\_\_\_

Signature: \_\_\_\_\_

Office Use Only

	<p>Payment terms: 50% down payment with order balance net 30</p> <p>Delivery: See quote body for specific delivery dates</p> <p>Prices/Terms: Ex works North Branford, CT USA</p> <p>Packing: Not included unless explicitly mentioned above.</p> <p>Deliveries subject to prior sale. // Validity: 30 days unless specifically mentioned otherwise.</p> <p>Any order arising from this quotation shall be bound by the terms and conditions at the following webpage: <a href="http://www.artec-machine.com/downloads/">http://www.artec-machine.com/downloads/</a>.</p> <p>All prices subject to simultaneous order of all material quoted unless options are explicitly offered.</p> <p>Any repair activity required not explicitly quoted shall be extra and chargeable to purchaser.</p>	

QUALITY THAT BUILDS REPUTATION



Tel: (203)-484-2002  
 Fax: (203)-488-2969

**26 Commerce Drive, North Branford, CT 06471**

E-mail: [techsupport@artec-machine.com](mailto:techsupport@artec-machine.com)  
[www.artec-machine.com](http://www.artec-machine.com)

## Service Report

Customer	: Diamond Peak	Artec ref	: ZSY19301
Keyword	: Lake View	Report date	: 26-Sep-19
Make/Model	: GPW 210 SL 138	Date of visit	: 26-Sep-19 - 26-Sep-19
Serial Number	: 21800_2390	Service Eng	: Nick Chieppo
Operating hours	: 25,836 hrs since 1996	Reviewer	: Chieppo

This report is **not** a continuation of another report.  
 Original report submission date: N/A / Submitted to: n/a

### 1 Conclusion / Recommendation

- As part of the Diamond Peak Preventative Maintenance Program the Lake View gear box was inspected for safety and reliability.
- Based on hours run and importance of the lift an overhaul is recommended for 2020.
- A borescopic inspection noted indications on the high speed planet gears (photos below).
- Long lead times are typical for some parts, a level 1 rebuild kit AND high speed planets and sun gear are available upon request.

Based on inspections conducted and/or repairs made Artec recommends the unit can be operated in accordance with the manufacturers guidelines. A comprehensive maintenance program should be established.

### 2 Contact Person

Name: John Olson  
 Office #: 775 832 1265  
 Mobile #: 530 318 1339  
 Email: [jgo@ivgid.org](mailto:jgo@ivgid.org)

### 3 Reason for equipment service

Due to the importance of the lift and the Diamond Peak maintenance program several gear boxes were inspected.

### 4 Situation upon arrival

Oil was drained and qualified personnel ready to assist.



26 Commerce Drive  
 North Branford, CT 06471

ISO 9001:2008 Quality

Form Date :28Oct2016  
 Doc Date : See pg 1  
 Page : 1 of 12



26 Commerce Drive, North Branford, CT 06471

Tel: (203)-484-2002  
Fax: (203)-488-2969

E-mail: [techsupport@artec-machine.com](mailto:techsupport@artec-machine.com)  
[www.artec-machine.com](http://www.artec-machine.com)

**5 Work executed**

- Plugs and inspection covers were removed for an internal visual inspection.
- The service brake was opened and backlash checked.
- The external condition of the gear box was inspected.

**6 Findings/Results – General**

Casing, shaft and/or gear dimensional checks  are  are not included on the final page.

- Indications of concern were noted on the high speed planets, typically replaced as a set.
- Some “tracking” was noted on tooth flanks of the low speed planets but need to examine closer before condemning.
- Doppelmayr and Lohmann ZF recommend units are overhauled around 26,000 hrs.
  - This unit has 25,000hrs.
  - Only at a tear down can components be thoroughly examined, however it would be safe to order the HS planet and sun gear and a level 1 rebuild kit prior to a scheduled overhaul for this unit.
- Condensation builds up from heat differentials in terminal which can cause corrosion.
  - Draining about a gallon of oil prior to beginning of season will take out water build up.
- This unit has an internal mechanical backstop that appears functional. The pin is in good condition. OK
- The unit is a top drive with limited downloading.
- The external condition of the unit is good.
  - There are oil leaks reported at the split line, input seal and the APU pulley.
- The lift is important and services the restaurant, runs about 1,200~1,500hrs per year.
- There is an in line oil filter: AMS recommend a 25micron absolute filter be used.

Bevel : (pinion direction of rotation input CW output CCW)

Bevel contact backlash: approximately 0.12mm

**7 Findings/Results – Lubrication**

Lubrication type :  Pressurized  Splash  
 Sump :  Dry  Wet  
 Lubricant brand and trade name : Chevron  
 Lubricant age : 8  Years  Hours  
 Lubrication analysis performed by customer :  Y  N

**8 Remaining work**

Assist with parts delivery and overhaul upon request.

**9 Artec – Actions to be taken**

 <a href="http://www.artec-machine.com">www.artec-machine.com</a>	26 Commerce Drive North Branford, CT 06471	ISO 9001:2008 Quality	Form Date :28Oct2016 Doc Date : See pg 1 Page : 2 of 12
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26 Commerce Drive, North Branford, CT 06471

Tel: (203)-484-2002  
Fax: (203)-488-2969

E-mail: [techsupport@artec-machine.com](mailto:techsupport@artec-machine.com)  
[www.artec-machine.com](http://www.artec-machine.com)

- Assist customer upon request.

### 10 Customer – Actions to be taken

Please contact Libby for a parts quote “Level 1” AND 3) planet gears and one high speed sun gear.

### 11 General Remarks

Thank you for the opportunity to provide Diamond Peak this service.

### 12 Running Test Data

- Artec did not witness startup at customer site.
- Artec witnessed startup at customer site. Details as follows:

### 13 Documents attached/enclosed

- Photos  Tooth contact  Offer form  Daily log
- Other.  Other.

### 14 Photos



26 Commerce Drive  
North Branford, CT 06471

ISO 9001:2008 Quality

Form Date :28Oct2016  
Doc Date : See pg 1  
Page : 3 of 12





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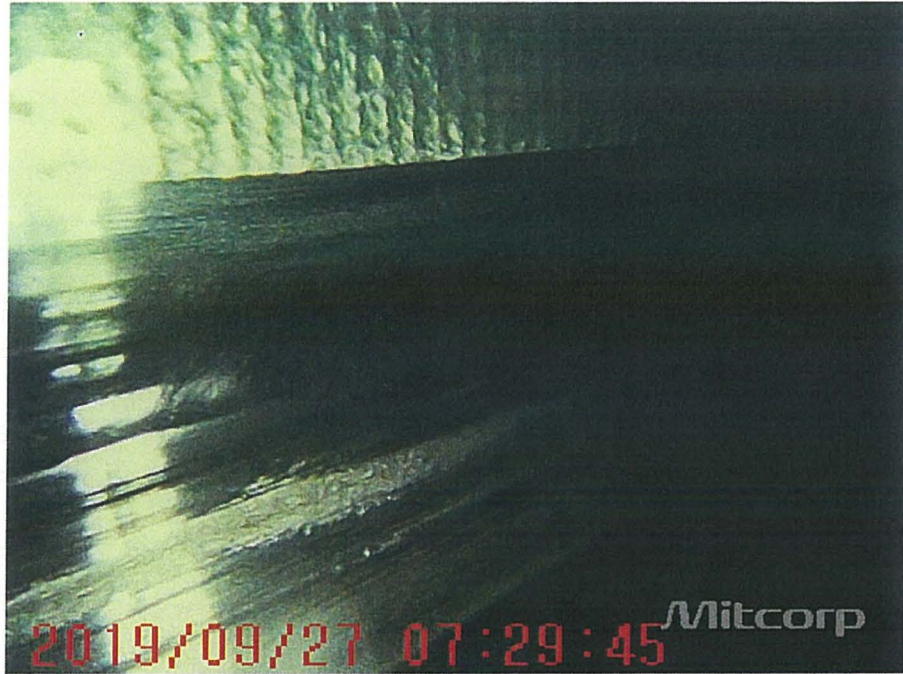
Indications  
on the hs  
planets



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Hs planet tooth



 <a href="http://www.artec-machine.com">www.artec-machine.com</a>	26 Commerce Drive North Branford, CT 06471	ISO 9001:2008 Quality	Form Date :28Oct2016 Doc Date : See pg 1 Page : 7 of 12
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Artec is an active member of the American Gear Manufacturers Association.



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Bevel pinion bearing some wear



Tracking LS planet



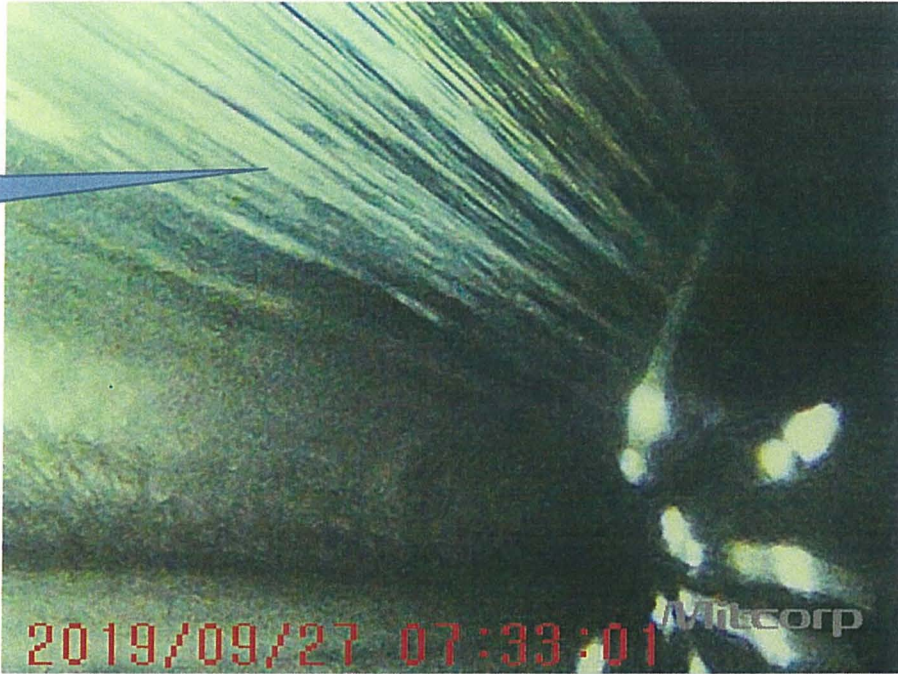


Tel: (203)-484-2002  
Fax: (203)-488-2969

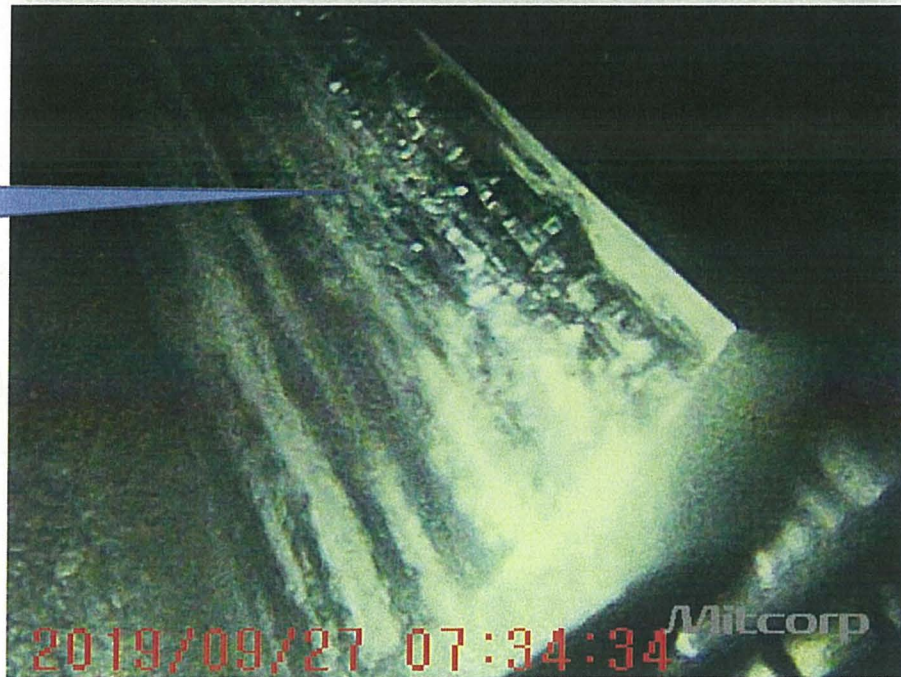
26 Commerce Drive, North Branford, CT 06471

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LS planet



LS planet





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LS planet



LS planet





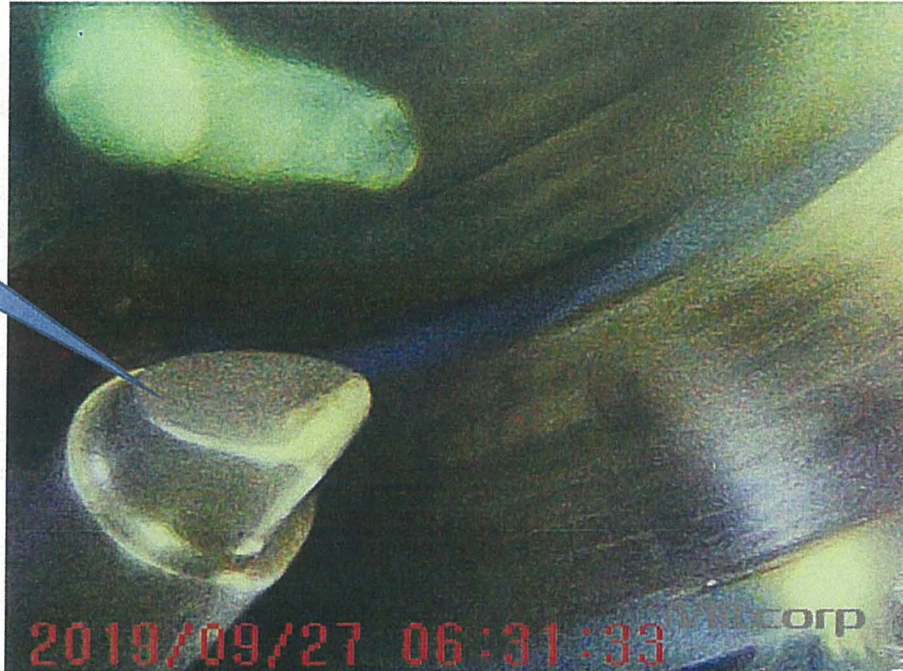


26 Commerce Drive, North Branford, CT 06471

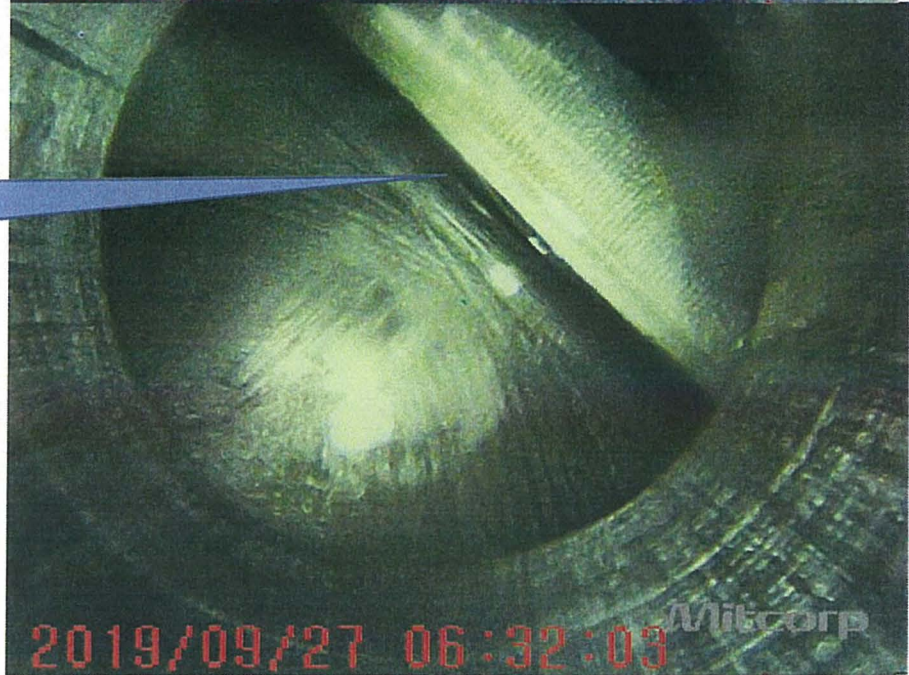
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Back stop pin OK



The ratchet of internal backstop



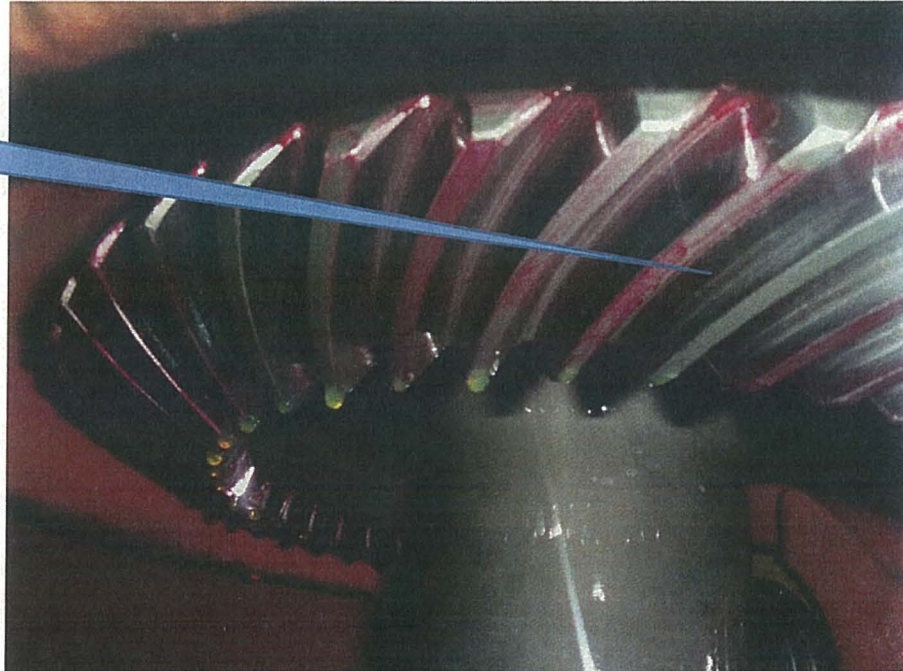


26 Commerce Drive, North Branford, CT 06471

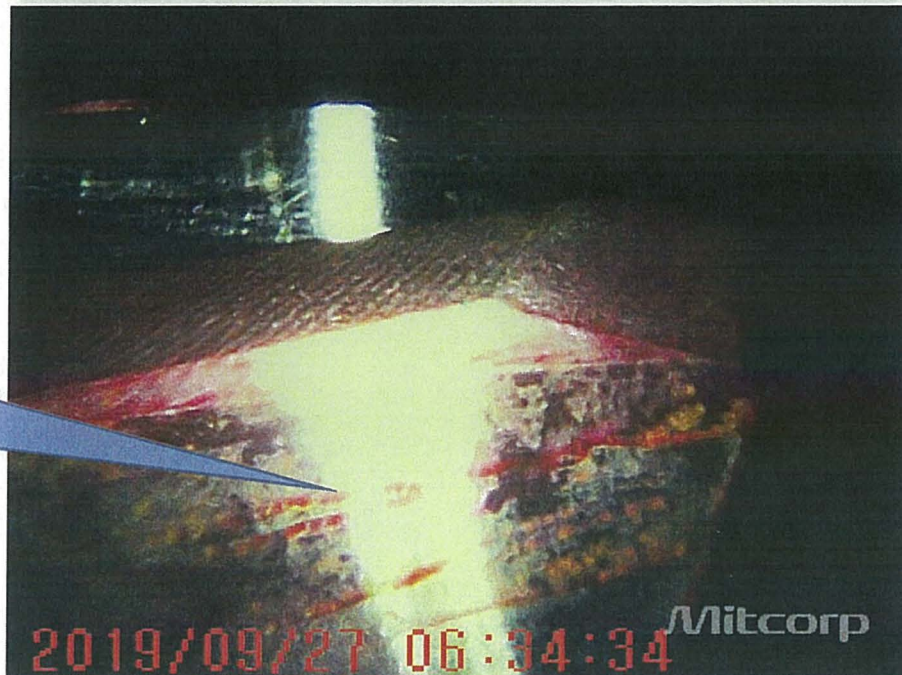
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Bevel gear  
OK



Bevel pinion  
minor  
corrosion from  
condensation





## Project Summary

<b>Project Number:</b>	3462HE1702
<b>Title:</b>	Lakeview Ski Lift Maintenance and Improvements
<b>Project Type:</b>	E - Capital Maintenance
<b>Division:</b>	62 - Lift Operations
<b>Budget Year:</b>	2022
<b>Finance Option:</b>	
<b>Asset Type:</b>	HE - Heavy Duty Service Equipment
<b>Active:</b>	Yes

<b>Project Description</b>				
The District owns 6 Ariel ski lifts at Diamond Peak Ski Resort. The lifts were generally constructed between 1969, 1979, 1995 and 2003 consisting of fixed grip double chair, fixed grip quad chair and a detachable quad chair. Each lift contains many of the same operating components such as motors, gear reducers, auxiliary engines, fuel tanks, haul ropes, counterweight ropes, line machinery, rope tension systems, braking systems, bull wheels, carriers and haul rope grips, communication lines, safety control systems, drive control systems, switches, conveying systems and loading systems				
<b>Project Internal Staff</b>				
Mountain and Lift operations staff will perform the procurement and installation of the equipment				
<b>Project Justification</b>				
This Project Funds the replacement and maintenance of equipment listed above within the chair lift system. Staff performs inspections and maintenance on the lift system and plans future major upgrades as equipment reaches the end of its useful life. The age of the equipment, the number of operating hours on the lift and other equipment analysis, such as manufacture recommendations, ANSI B-77 standards, inspections and non destructive testing, usage and wear dictate replacement or rehabilitation of the equipment to maintain a reliable ski lift system to our customers.				
<b>Forecast</b>				
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	
2022				
Refurbish-Rebuild Gear Reducer	75,000	0	75,000	
Year Total	75,000	0	75,000	
2023				
Replace Seat Cushions	17,000	0	17,000	
Year Total	17,000	0	17,000	
2025				
Replace Loading System Belt	41,000	0	41,000	
Year Total	41,000	0	41,000	
2026				
Replace Carrier Haul Rope Grips	192,000	0	192,000	
Year Total	192,000	0	192,000	
	<b>325,000</b>	<b>0</b>	<b>325,000</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Est. Completion Date</b>	<b>Manager</b>	<b>Project Partner</b>
2013	Jul 1, 2021	Jun 30, 2022	Ski Resort General Manager	



**INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT**

**PURCHASE ORDER**

P.O. NUMBER	DATE
22-0032	07/07/202

THIS NUMBER MUST APPEAR ON ALL INVOICE PACKING LISTS, LABELS, BILLS OF LADING AND CORRESPONDENCE.

Vendor Name, Address, and Number	Ship To Address And Phone Number	Please Send Invoices To
3901 <b>Maco Machinery CO. Inc. Dba: Artec Machine Systems</b> 26 Commerce DR  North Branford, CT 06471	<b>Diamond Peak Ski Resort</b> 1210 Ski Way  Incline Village, NV 89451 775-832-1100	<b>Incline Village GID</b> 893 Southwood Blvd. Incline Village, NV 89451 775-832-1100 ap@ivgid.org

**\*\*\* This is Not an Approved PO \*\*\***

LINE NO.	QUANTITY	UOM	ITEM AND DESCRIPTION	UNIT COST	EXTENDED COST	GL Coding
1	1.00	Each	Professional services contract, 2021/2022 capitol improvement project #3462HE1702 Refurbish - Rebuild Gear Reducer - Pending Board of Trustees approval. Vendor: Artec Machine Systems	\$72,617.00	\$72,617.00	340-34-990-8120 Project # 3462HE1702

				<b>TOTAL</b>	<b>\$ 72,617.00</b>	
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Comments:  
USER ID

The District is granted Tax Exempt Status by the State of Nevada, State ID 88-7600004-K, therefore any goods or services delivered to the District within the boundaries of the State of NV are exempt from NV sales and use tax.

All shipments should be freight prepaid F.O.B. destination. Unauthorized shipments will be returned at the seller's expense Title and risk of loss on all items shipped shall pass to the buyer at the F. O. B. destination.

Payments of all invoices is net 30 unless expressly written and acknowledged in writing by the District's Director of Finance or Controller. IVGID's Federal Tax ID Number is 88-0099974.

CERTIFY THAT THE ABOVE PURCHASE IS FOR AN EXPENDITURE AS DEFINED BY NRS 354.520 OR AN EXPENSE UNDER NRS 354.523 AND THAT THE PURCHASE ORDER HAS BEEN ENCUMBERED AS DEFINED BY NRS 354.516.

  
Sandra Winqest General Manager