DECISION PAPER



Date: February 23, 2019

Agenda Topic:

The General Plan Committee (GPC) recommends snowmaking improvements to be installed for Snowplay operations at Trout Creek Recreation Center, during summer months of 2019.

Background:

In recent years, The Tahoe region has experienced drier than average winters, forcing late opening, and/or mid-season closures. Five of the last seven seasons have been affected by low and/or no snow in areas, depriving members and guests of the opportunity to enjoy their winter amenities, resulting in a significant loss of revenue. Many Snowplay areas, Downhill Ski, and Cross-Country Ski Areas are investing in snowmaking infrastructure to ensure they can provide a quality and safe skiing surface for their customers, while also retaining skilled employees and capturing peak holiday revenue.

With the overwhelming success of Tahoe Donner's 2015 snowmaking installations along Snowbird Chairlift, the General Plan Committee voted in August of 2018, to allocate \$100,000 to install necessary utilities to provide snowmaking infrastructure along the slopes of Snowplay operations, during the Summer of 2019, see attachments.

Within the approved 2019 Annual Budget and Capital Funds Projection, Tahoe Donner has earmarked \$800,000 for snowmaking infrastructure and equipment at Snowplay (\$100K), Downhill Ski Area (\$600K), and on select Cross-Country ski trails (\$100K). To obtain final construction costs and receive agency approvals by this summer, engineering drawings should commence in late February of 2019.

Recommendation:

Using allocated Development Funds for snowmaking improvements in 2019, Staff requests Board approval to proceed with Pure Flow Mechanics (PFM Snowmaking), for engineering of necessary snowmaking plans and documents. With this, Staff shall proceed with Permitting efforts to obtain updated total project cost estimates for fixed equipment and portable snowmaking infrastructure along Snowplay operations; for further Board consideration and approval prior to construction efforts this summer. Engineering and Permitting efforts should not exceed \$15K from the allocated \$100,000 Development Fund budget.

| Prepared By: Forrest Huisman | |
|--|-------|
| Reviewed By: Michael Salmon | |
| Board Meeting Date: February 23, 2019_ | |
| General Manager Approval to place on agenda: | Date: |

Reasons for SNOWMAKING

- To control and minimize the financial risk of our winter operations
- To ensure reliable conditions for our members at our popular winter amenities.

Association Needs (Fix what we've got)

- A. Correct Safety and Health hazards
- A. Insure compliance with regulatory codes: ADA, Title 24, etc.
- B. Prevent our assets from deterioration
- C. Preserve our financial condition

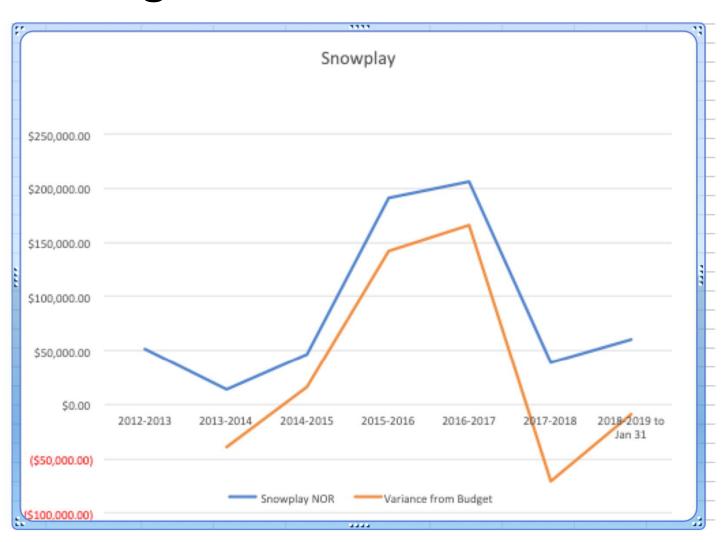
WHAT HAVE WE LEARNED?

\$640,000 IN FAVORABLE NET OPERATING RESULTS AT DOWNHILL SKI DUE TO SNOWMAKING

December 2017–February 2018 (snowmaking only) compared to December 2013–February 2014 (no snow)



7 year Snowplay financials Budget and NOR variance



Tahoe Donner Association Statement of Financial Position Operating Fund (901+)

| Audit in | |
|----------|--|
| Progress | |
| 11 11 11 | |

| as of end of month: | 2014 February | 2014 January | (Audited) 2013 December | 2013 February | |
|---------------------------------------|------------------|-----------------|-------------------------------|------------------|--|
| Assets | | | | | |
| Cash and Investments, Restricted | 248,517 | 242,637 | 245,556 | 90,633 | |
| Cash and Investments, non-Restricted | 7,225,901 | 4,325,772 | 3,146,349 | 6,015,786 | |
| Member's Dues & Receivables, Net | 1,872,390 | 5,108,952 | 254,279 | 1,288,458 | |
| Other Receivables | 85,561 | 139,761 | 217,169 | 90,464 | |
| Due From (To) Other Funds | (2,989,997) | (3,067,921) | (69,916) | 236,998 | |
| Inventory | 288,486 | 296,773 | 304,436 | 217,413 | |
| Prepaid Expenses & Other Assets | 557,964 | 646,004 | 608,508 | 450,074 | |
| Total Assets | 7,288,822 | 7,691,977 | 4,706,381 | 8,389,827 | |
| Liabilities and Members' Equity | | | | | |
| 3436.79 0 20 30 | 163,902 | 271,742 | 341,738 | 646,862 | |
| Accounts Payable Accrued Liabilities | 727,861 | 678,585 | 784,054 | 794,894 | |
| Deferred Revenue, Annual Assessment | 5,290,217 | 5,233,298 | 1,749,430 | 4,967,483 | |
| Deferred Revenue, Recreation Fee | 649,059 | 540,859 | 441,569 | 612,321 | |
| Deferred Revenue, All Other | 233,637 | 299,939 | 380,841 | 248,846 | |
| | 219,084 | 228,837 | 232,352 | 123,349 | |
| Deposits | 219,004 | | | 120,043 | |
| Total Liabilities | 7,283,761 | 7,253,261 | 3,929,983 | 7,393,755 | |
| Members' Equity | 5,061 | 438,716 | 776,398 | 996,071 | |
| Total Liabilities and Members' Equity | 7,288,822 | 7,691,977 | 4,706,381 | 8,389,827 | |



INGREDIENTS FOR SNOWMAKING



WATER: Temporary meter on fire hydrant + surface hoses.



POWER: 480 volt 3 phase power. Generator or mains



WATER PRESSURE: Pumps on Fan Guns or Centralized Pump House better for larger scale snowmaking.





HYDRANTS (close to guns best) and HOSE (buried pipe removes issues with frozen hoses)



GUNS: Fan Guns great for large areas.

SNOWMAKING

for a snow guarantee – 1 acre Snowplay

OPERATIONS

CAPITAL

2 Polecat Fan Guns with Pumps + 3 Stick guns. Hoses.





Temporary meter rental to access water from existing fire hydrants at Snowplay.

Water and diesel costs



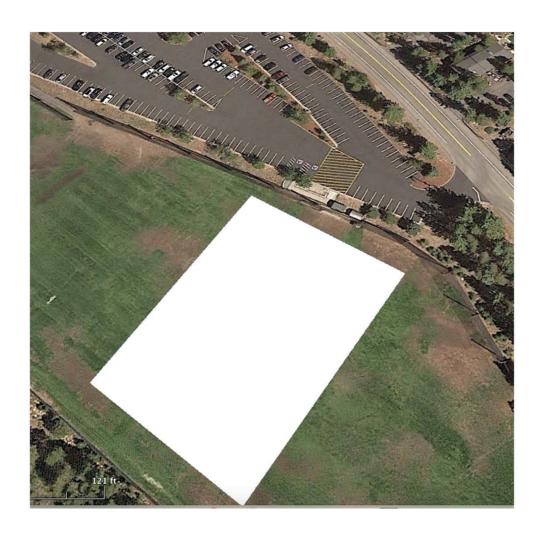


Labor



SNOWPLAY

1 acre of basic terrain (takes about 48hrs at 26°F). More made as needed to enhance and expand natural snow on runs.



Reasons for Snowmaking

- To provide these popular activities for our Membership and community
- To reduce budget uncertainty and create more reliable positive NOR, thus reducing Operating Fund Assessment \$s
- To ensure high quality and safe user conditions
- To provide continuity
- To retain skilled employees

PROJECT INFORMATION PAPER



August 2, 2018

Issue:

In recent years, we have experienced drier than average winters, forcing late opening, and/or mid-season closures at the Snowplay operation near Trout Creek Receation Center. Five of the last seven seasons have been affected by low, or no snow, depriving guests of the opportunity to enjoy snowplay activities, resulting in a significant loss of revenue. A Feasibility Study and detailed analysis is recommended to provide options for fixed, and/or portable snowmaking infrastructure and equipment.

Background:

Many winter operations in North America have been successfully investing in snowmaking to ensure they are able to provide a quality and safe skiing surface for their customers, which retains skilled employees and captures peak holiday revenue.

The investment in a snowmaking system could provide a solution to low-snow management at our Snowplay operations as early as the 2018-2019 season. The goal would be to install a snowmaking system to maintain good conditions close to Trout Creek Recreation Center.

Project Scope Detail:

- Analyze the financial impact and the benefits that snowmaking would provide for our membership.
- Analyze the available systems that would be most efficient and least disruptive to people living near.
- Define Project Costs, Schedule, Use-Permit and Grading Permit requirements

Evaluation Criteria:

- 1. Objective or reason for the project (need or opportunity for improvement)
- 2. Scope of the project and how it meets the need or opportunity
- 3. Financial impact as an Stage-1 estimate +/-100%
- 4. Customer service impact
- 5. Risks such as environmental, ADA, code compliance, health & safety
- 6. Opportunities such as energy impact, operational improvement
- 7. Alternatives available and evaluation of their impacts

| Prepared by: Director of Capital Projects, Forrest Huisman | |
|--|---------|
| Approved by: Board of Directors, Jennifer Jennings | _Date: |
| Approved by: General Plan Committee, Michael Sullivan | _Date: |
| Approved by: Finance Committee, Art King | _ Date: |
| Approved by: General Manager, Robb Etnyre | _Date: |

| GPC Task Force | Project | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|------------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|------------|
| Association Wide | Association Master Plan (Dudek) | 5,856 | | | | | | | | | | | | |
| Association Wide | New Accessibility Improvements | | 50,000 | 150,000 | | | | | | | | | | |
| Association Wide | Member Surveys | | 50,000 | | | | | | | | | | | |
| Association Wide | Roof Structures over Mailboxes (\$440K RRF) | | | | | | | | | | | | | |
| Alder Creek Adventure | (Equestrian Relocation (\$500K DF budget) (b.\$100K DF '18) | 98,533 | 25,000 | | | | | | | | | | | |
| Alder Creek Adventure | (Snowmaking on select Nordic Trails (Phase 1 of 3) | | 100,000 | | | | | | | | | | | |
| Downhill Ski Resort | Master Plan (ECOsign) | 15,897 | | | | | | | | | | | | |
| Downhill Ski Resort | Downhill Ski Lodge (+\$2MM RRF/2022, \$75K rollover-'19) | | 2,075,000 | 2,300,000 | 2,500,000 | 2,500,000 | 1,500,000 | 1,500,000 | | | | | | |
| Downhill Ski Resort | Snowbird relocation and Eagle Rock Shrouding (b.\$90K) | 62,274 | | | | | | | | | | | | |
| Downhill Ski Resort | Snowmaking to Eagle Rock (Phase 1 premit credit in '18) | -6,617 | 600,000 | | | | | | | | | | | |
| Downhill Ski Resort | Regrade Mile Run for min. 8% slope (skier experience) | | 50,000 | 200,000 | | | | | | | | | | |
| The Lodge | Covered Stairway, connecting parking lot (TOT permitted) | | 125,000 | | | | | | | | | | | |
| Trails and Open Space | Implement trail/trailhead projects on the 5YIP | 56,396 | 100,000 | 150,000 | 75,000 | 75,000 | | | | | | | | |
| Trout Creek Recreation | (Trout Creek Expansion (\$200K DF b.2018, rollover-'19) | 78,835 | 396,165 | 275,000 | | | | | | | | | | |
| Trout Creek Recreation | (Snowmaking at Snowplay | | 100,000 | | | | | | | | | | | |
| Association Wide | Feasibility Studies | | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| Association Wide | Future Land Acquisiton (No DF spent in 2018, rollover-'19) | | 120,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 |
| | | | | | | | | | | | | | | |
| Estimated Annual Tota | als, excld RRF, Inflation Factor, and direct/allocated overhead | 311,174 | 3,841,165 | 3,185,000 | 2,685,000 | 2,685,000 | 1,610,000 | 1,610,000 | 110,000 | 110,000 | 110,000 | 110,000 | 110,000 | 110,000 |
| | Direct and Allocated Overhead | 191,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 | 311,000 |
| | Expenditures Total | 502,174 | 4,152,165 | 3,496,000 | 2,996,000 | 2,996,000 | 1,921,000 | 1,921,000 | 421,000 | 421,000 | 421,000 | 421,000 | 421,000 | 421,000 |
| 2.09 | 6 Inflation Factor | 0 | 0 | 70,000 | 120,000 | 180,000 | 154,000 | 192,000 | 51,000 | 59,000 | 67,000 | 76,000 | 84,000 | 93,000 |
| | Total Including Inflation | 502,174 | 4,152,165 | 3,566,000 | 3,116,000 | 3,176,000 | 2,075,000 | 2,113,000 | 472,000 | 480,000 | 488,000 | 497,000 | 505,000 | 514,000 |
| 201 | S SASELINE YEAR FOR INFLATION FACTOR | | | | | | | | | | | | | |
| 1.89 | Interest Income | 70,000 | 96,000 | 61,000 | 37,000 | 21,000 | 3,000 | 4,000 | 5,000 | 36,000 | 67,000 | 98,000 | 129,000 | 161,000 |
| 8.09 | 6 Income Tax Expense | 5,600 | 7,700 | 4,900 | 3,000 | 1,700 | 200 | 300 | 400 | 2,900 | 5,400 | 7,800 | 10,300 | 12,900 |
| | Bad Debt Expense | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 |
| | TRANSFERS IN (OUT) | | | | | • | • | • | | • | * | • | * | |
| 20 | O <years: contrib="" normalized=""></years:> | 310 | 335 | 335 | 335 | 335 | 335 | 335 | 335 | 335 | 335 | 335 | 335 | 335 |
| 647 | Annual Contribution | 2,007,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 | 2,168,000 |
| | Beginning | 3,753,013 | 5,315,240 | 3,412,375 | 2,063,475 | 1,142,475 | 146,775 | 235,575 | 287,275 | 1,980,875 | 3,694,975 | 5,429,575 | 7,183,775 | 8,958,475 |
| | Ending | 5,315,240 | 3,412,375 | 2,063,475 | 1,142,475 | 146,775 | 235,575 | 287,275 | 1,980,875 | 3,694,975 | 5,429,575 | 7,183,775 | 8,958,475 | 10,753,575 |
| | | | | | | | | | | | | | | |
| | | Yr 2018 | Yr 2019 | Yr 2020 | Yr 2021 | Yr 2022 | Yr 2023 | Yr 2024 | Yr 2025 | Yr 2026 | Yr 2027 | Yr 2028 | Yr 2029 | Yr 2030 |
| | Project Stages Color Code | Project A | Analysis | Conceptu | al Design | Final D | esign | Constru | uction | Post-Projec | t Review | · | | |
| | Board Approval required at the following intervals (#) | | # | | # | | # | | | | | | | |

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