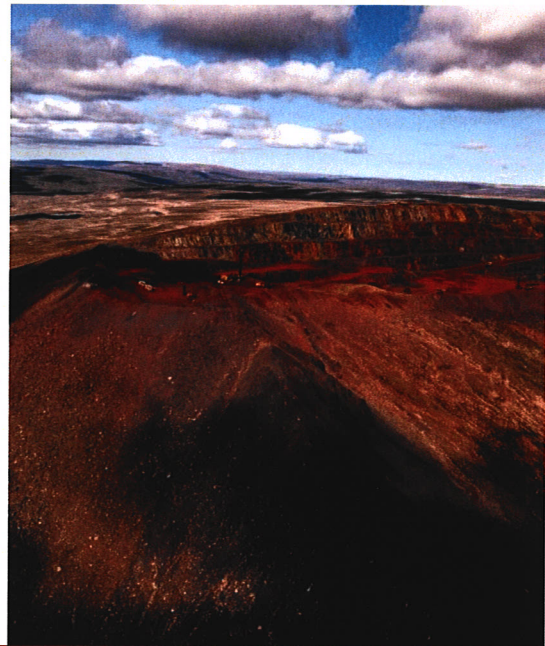




.....

Διοργανωτής: Γενική Διεύθυνση
Γενικό Επιτελείο 2021



▷^cb▷r▷σ◁^cb▷^c▷d◁

- Description of Assessment
የፖሊሲና ፕሮጀክት ማጠቃለያ
- Mitigation and Monitoring
ፍጥነትና ማስተካከያ ማረጋገጫ
- Technical Review Summary
የፖሊሲና ፕሮጀክት ማጠቃለያ
- Project Certificate Conditions
ፕሮጀክት ምዕራፍ ማረጋገጫ
- Summary
ፍጥነትና ማስተካከያ ማረጋገጫ

ᐱᓪᐱᐃᔭᑦᕐᕋᐅᓂᑦᓯᑦ
ᑦᕐᕋᐅᔨᔭᐃᓂᑦ



[illegible][illegible]

Phase 2 Considerations

[illegible]

Mine Site

Increased Production
Secondary Crusher Moving to Port
ለፍርድመኖሪያውን ለማረጋገጥ
የህድረ ምረቃ ለማስተካከል ይረጋገጣል

Increasing activity increases ore dust
Overall less dust than originally predicted

ለጥራ ምርጫ ምርጫ ምርጫ
 ምርጫ ምርጫ ምርጫ ምርጫ
 ምርጫ ምርጫ ምርጫ ምርጫ
 ምርጫ ምርጫ ምርጫ ምርጫ



Rail/Road Corridor
◀^၆၂၈^၆▲[<] Δσ^ခ

Structure and Modifications
Short-term Increase in Traffic
Long-term Decrease in Traffic

ሳይቀጥሉ ለመገናኛት ለሚገኝ ለጋራ ልማት ስራዎች
 ማሳተፍ ለሚችሉ ለሚገኙ ለሚገኙ ለሚገኙ ለሚገኙ
 ለሚገኙ ለሚገኙ ለሚገኙ ለሚገኙ ለሚገኙ ለሚገኙ

[illegible]

Milne Port

Increased Development Area
Increased Activity

[illegible]

Increased activity increases Ore Dust
ከጋራ ጋራ የሚገኝ የኦሮ ድስት

Assessment Methodology

ᄒᆞᆫ ᄇᆡᆯᆫ ᄂᆞᆫ

◀^{ᑭᔪ} C ▶ σ ▶ ካ ሂ^C

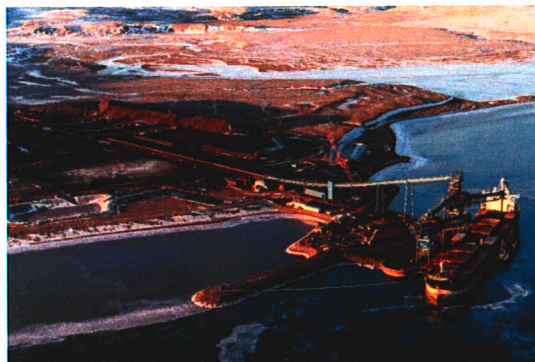
- Low-emission vehicles
 CO_2 , CH_4 , NO_x
- Inventory of sources and emissions
 CO_2 , CH_4 , NO_x
- Computer simulations / CADNA/A , CALPUFF
- noise (CADNA/A) / $\sigma_{\text{L}}(\text{CADNA/A})$
- dust (CALPUFF) / PM_{10} (CALPUFF)
- combustion products (CALPUFF) / SO_2 , NO_x (CALPUFF)



Assessment Methodology

[illegible][illegible]

- Results compared to air quality thresholds
ክፍል 3.1.1 ላይ የተገለጹትን የአየር ንፍሰት ምርመራ ለውጤቶች ከአየር ንፍሰት ምርመራ ለውጤቶች ሲነፃፅሩ
- Results also used in other assessments
ክፍል 3.1.2 ላይ የተገለጹትን የአየር ንፍሰት ምርመራ ለውጤቶች ከሌሎች ምርመራ ለውጤቶች ሲነፃፅሩ

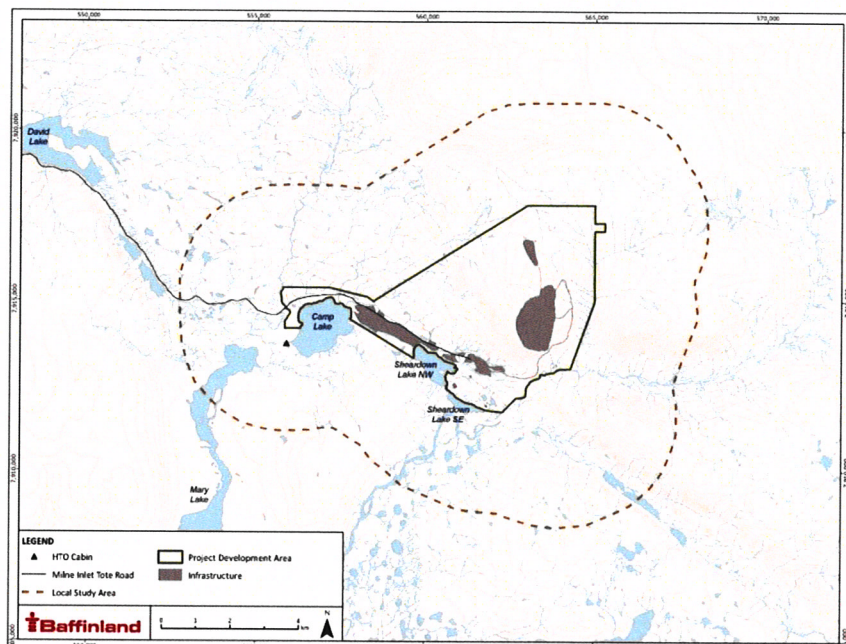


Mine Site

Local Study Area

ᐃᓴᑦ ᐅᓴᑦ ᐅᓴᑦ ᐅᓴᑦ

Taken from TSD 07, App. A, Fig. 2
ለገጽ ፩ ኃይሉ TSD 07, App. A, ፊገር 2

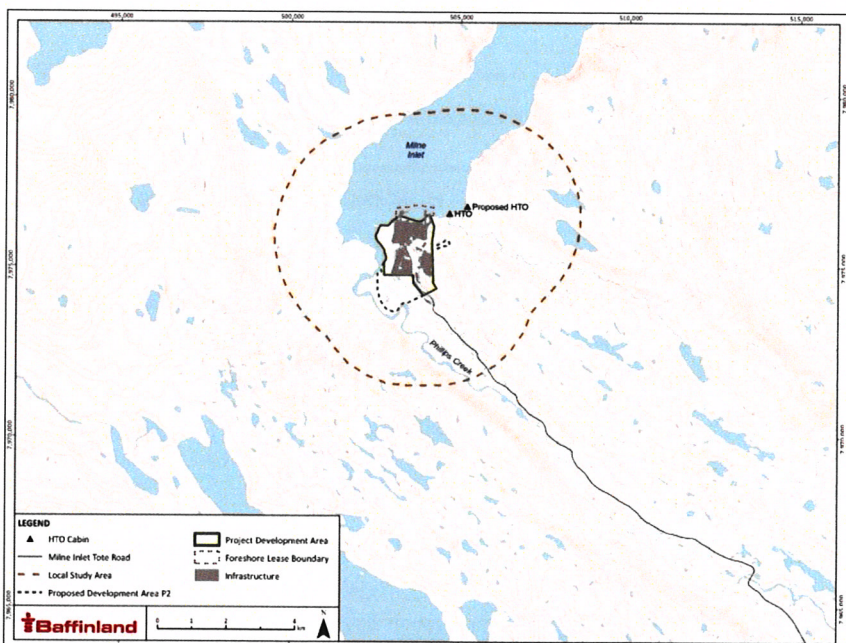


Milne Port

Local Study Area

የጸሐፊው ጋራ ርዕስ ስም
የጸሐፊው ስም

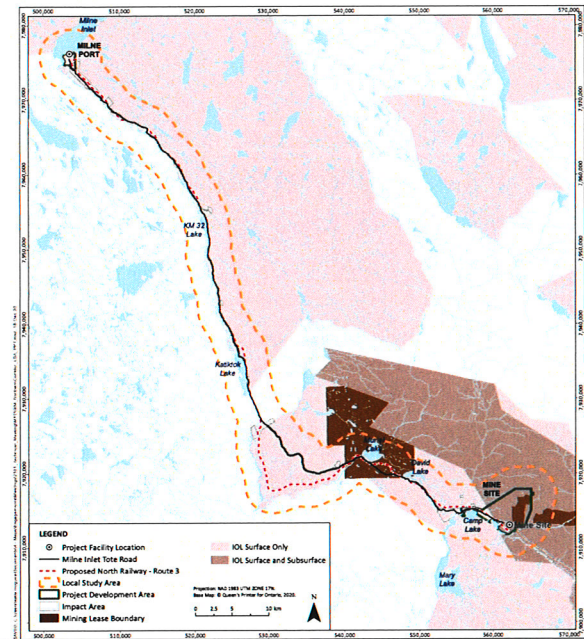
Taken from TSD 07, App. A, Fig. 1
ΛηΔσ^a TSD 07, App. A, Δ'Γ~ΥΔ^a 1



Transportation Corridor Local Study Area

ᐃᓴᓯᓴᐱᐅᓂᐸᐸᐸᐸ

መዲኤሊር ንፍሽብና ንፍልክና



Key Elements / $\wedge \neg \triangleleft \triangleright \neg$

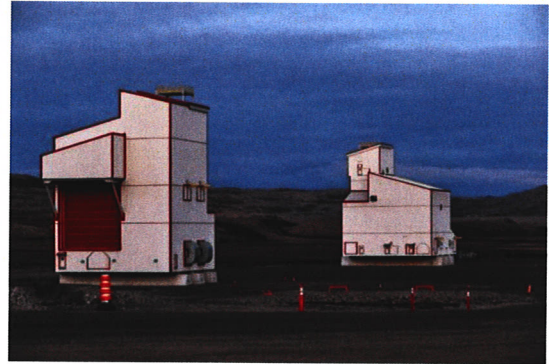
Additional Assessment Information / ፩፻፲፭ ስርዓተ ምርመራ ትግል

- Updated air quality and noise abatement management plan
ጋዖተኛነትና ልማት አስተዳደር ስራ ዘመናዊ የአየር ንብረት ምርመራና ቁጥጥር ስልጣን ለማግኘት
 - Black carbon emissions estimate
ጎረቤት አካባቢው የሆት ካርቦን መጨመር መጠን መለኪያ
 - Phase 2 passive dustfall monitoring
ጎረቤት አካባቢው ለአየር ንብረት ምርመራና ቁጥጥር ስራ የሚያገለግል
 - Estimate of mobile equipment by emissions class (tier)
የሚያገለግል የሆኑ የሽግግር መሳሪያዎች የአየር ንብረት ምርመራና ቁጥጥር ስራ
- Review of mitigation options for reducing black carbon emissions from shipping
የምርመራና ቁጥጥር ስራ ለመቀነስ የሚያስፈልጉ የአየር ንብረት ምርመራና ቁጥጥር ስራ
 - Detailed summary of 2017 continuous ambient air quality monitoring results
2017-ይዘት ዓመት የአየር ንብረት ምርመራና ቁጥጥር ስራ ውጤት
 - Climate and wind data summary
የአየር ንብረት ምርመራና ቁጥጥር ስራ ውጤት

New Mitigation for Phase 2 Dust & Emissions Reduction

ፊርጽ ላታጋጋ፤ ርዕሰ ጉዞ ሲሆን፤
 ጋራ ሲሆን ርዕሰ ጉዞ ሲሆን ለራሱ ሆኖ ሊሆን
 ይችላል፤ ለራሱ ሆኖ ሊሆን ይችላል፤
 ለራሱ ሆኖ ሊሆን ይችላል፤ ለራሱ ሆኖ ሊሆን ይችላል፤

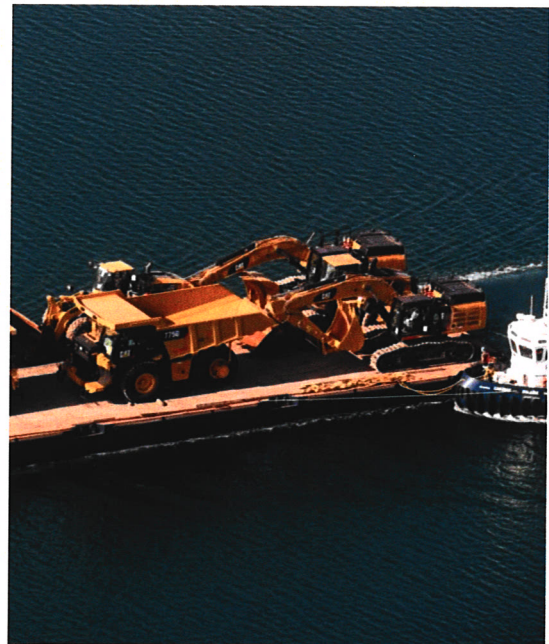
- Switch from use of ore trucks to rail
ፌዴራል ስርዓት ለብረት ማምረቅና ለማስተላለፍ
- Enclosed secondary crushing at Milne Port
የከፍተኛ የአይነት ምርት ማምረቅና ማስተላለፍ



New Mitigation for Phase 2 Dust & Emissions Reduction

[illegible]

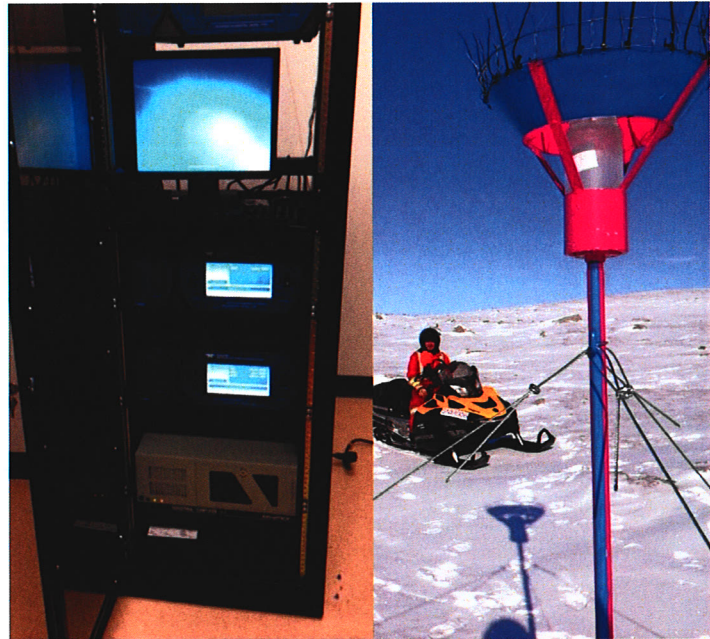
- New/replacement equipment will meet strict emissions standards
 ፊር/ፈላጊ የሚቀርብ ሲሆን ስኬት ለሚገኝ ለውጥ ማድረግ ይገባል
- New equipment will meet (Tier 4) standard or better
 ፊር ስኬት ለሚገኝ (የጥፋት ደረጃ 4-ጥ) ለውጥ ማድረግ ይገባል



Monitoring and Follow-up Programs

ኤኔርጂ ምርት ልማት ኤኔርጂ ምርት ልማት ፖሊሲና ስልጣን

- Six meteorological stations
ፋክቶሪ (6) ስራ ስልጣን
- Continuous on-site air quality monitoring
ከፍተኛ ስራ ስልጣን ስራ ስልጣን
ኤኔርጂ ምርት ልማት



Monitoring and Follow-up Programs

ኤኔርጂ ምርት ልማት ኤኔርጂ ምርት ልማት ፖሊሲና ስልጣን

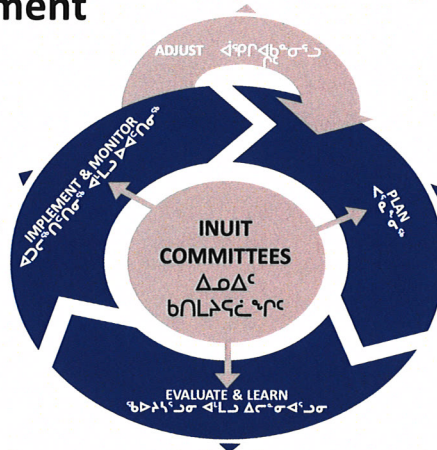
- Seasonal off-site air quality monitoring
ፋክቶሪ ልማት ስራ ስልጣን ስራ ስልጣን
ኤኔርጂ ምርት ልማት
- Monthly dustfall samples
ፋክቶሪ ኤኔርጂ ምርት ልማት ስራ ስልጣን
ፋክቶሪ ኤኔርጂ ምርት ልማት
- Noise monitoring at accommodations
ፋክቶሪ ኤኔርጂ ምርት ልማት ስራ ስልጣን



Adaptive Management

4. Implement Predetermined Responses as Necessary 4.

3. QIA Implements Inuit Stewardship Plan Monitoring Programs

[illegible]

1. Baffinland and QIA Agree to Adaptive Management Plan; QIA Establishes Inuit Stewardship Plan

[illegible]

2. Review of Monitoring Program Results Against Predetermined Indicators and Thresholds

2. የየጥያቄው ስር ያገኘው ለጥራት ሂሳብ ማረጋገጫ ይገባል፡፡

Adaptive Management

- General approach outlined in
Adaptive Management Plan
ኤምፈርጉቢ ላሚስገህና ምድር ርእሰ ኃይል
ዲዛይን ኤርጋኖሚክ ርእሰ ሳይንስ ምድር
ቴክኖሎጂ ሪፖርት
- Specific objectives, indicator, thresholds and
responses integrated into the Air Quality and
Noise Abatement Management Plan
የአየር ባለፊት ዓመት አየር ምድር
ኤምፈር-ኤርፕሮጀክት ሥራ ምድር
ኤምፈርጉቢ ላሚስገህና ምድር ርእሰ ኃይል
የአየር ባለፊት ዓመት አየር ምድር ርእሰ ኃይል
የአየር ባለፊት ዓመት አየር ምድር ርእሰ ኃይል



Adaptive Management

ᐱᓃᑦ ᑭᓂᑦ ᐱᓃᑦ ᑭᓂᑦ ᐱᓃᑦ ᐱᓃᑦ

- Proposed enhancements include air quality management action trigger levels for:
 - Sulphur Dioxide / ሲላ ቦለቱ ልጥፋኔ ምርጫ ልረካፍቶቹ ጋና ምዕደ ምዕደ ኔጋሪ
 - Nitrogen Dioxide / ሲላ ስኒኛዊ ኔጋሪ
 - Dustfall / ኃረፍ
 - Total suspended particulate (TSP) / ስብረቲኛ ኃረፍ ልረካፍቶቹ ጋና ምዕደ ምዕደ ኔጋሪ
 - Fine dust / ስብረቲኛ ኃረፍ ልረካፍቶቹ ጋና ምዕደ ምዕደ ኔጋሪ
 - Corrective actions for each trigger level / ልጥፋኔ ምርጫ ልረካፍቶቹ ጋና ምዕደ ምዕደ ኔጋሪ



Technical Review Summary

የፍትሕ ፍቅር ይገልጻል፡

Assessment Conclusions

ፍጥረትና ፍጥረት

- [illegible]

Key Issues Summary

ለፌዴራል ጋራ ልማት ሚኒስቴር

- Key issues raised in intervenor reviews
 - ለኒጥሮ ጋላጭ ልምድ ልማት ምርጫ ምርጫ ምርጫ
 - Sulphur Dioxide / ከግ ስለሆነ ልማት ምርጫ ምርጫ ምርጫ
 - Climate change action plan / ምርጫ ልማት ምርጫ ምርጫ
 - Potential human exposure / ልማት ምርጫ ምርጫ ምርጫ

Mitigating ship, generator and other equipment emissions /

[illegible][illegible]

Key Issues Summary

ለፌዴራል ጋራ ልማት ሚኒስቴር

- Key issues raised in intervenor reviews
ለኒዳባበር፡፡ ልናይሮ ስኔክሮርሶሪያል ደረጃውን በተመለከተ የአየር ንፍቅ መቆጣጠር
- Canadian Ambient Air Quality Standards / ኦሞርት አየር ንፍቅ መቆጣጠር ደረጃ
- dust levels / ንፍቅ ብረት መጠን
- air quality monitoring and adaptive management thresholds, triggers and actions / አየር ንፍቅ መቆጣጠር ደረጃ፣ ማስተካከያ እና ምላሽ

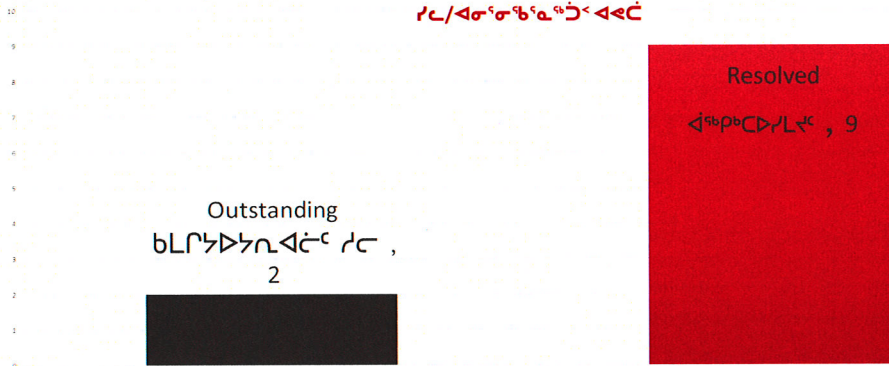


Status of Resolution

ኅይወገራዊናፍጥነት ለጥቅም

Atmospheric Environment

၂၄/၁၈^၆၈^၆၉^၆၅^၆၃[<]၁၉၇



Outstanding and Under Review – Physical Environment

[illegible]

Comment Topic / ፎክሎር/ክሊሳሪ ለኒሳሪ	Related ID's / ጋፍላጊኛ ደብዳቤዎች
Setting of emissions reduction targets / ፋኒሶጋብ ልማተኛ ልማተኛ ልማተኛ ልማተኛ ልማተኛ በጋራ ልማተኛ	WWF-FWS 08
Use of lighter distillate fuels / ልማተኛ ልማተኛ ልማተኛ ፋኒሶጋብ ልማተኛ	WWF-06

Key Commitments

$bL\gamma^{\epsilon} b^{\epsilon} \sigma \triangleleft^{\epsilon} \sigma \zeta^{\epsilon} \rho L \triangleright \triangleleft C^{\epsilon} \dot{\sigma}^{\epsilon} \triangleright d \sigma^{\epsilon}$

- [illegible]

ለጥራ ጥላቻ
ልጥራ ነጥብ ለጥራ ጥላቻ
ጥራ ጥላቻ

• • • • •

- Climate change and greenhouse gases (Condition #1 to 4) / ሥራው ላይ የክብደት ጥፋት ምክንያት የሆኑትን አስተዳደር ዘመናዊነት ማረጋገጥ (ክፍል 1-4 በአጠቃላይ)
- Accessible weather information (Condition #5) / የአየር ንፍሽ መለኪያዎችን ማረጋገጥ (ክፍል 5)
- Annual emission calculations (Condition #6 and 9) / የአየር ንፍሽ ስራው ላይ የክብደት ጥፋት ምክንያት የሆኑትን አስተዳደር ዘመናዊነት ማረጋገጥ (ክፍል 6 እና 9)
- Monitoring SO₂ and NO₂ (Conditions #7 & 8) / የአየር ንፍሽ ስራው ላይ የክብደት ጥፋት ምክንያት የሆኑትን አስተዳደር ዘመናዊነት ማረጋገጥ (ክፍል 7 & 8)
- Dust management and monitoring plan (Condition #10) / የአየር ንፍሽ ስራው ላይ የክብደት ጥፋት ምክንያት የሆኑትን አስተዳደር ዘመናዊነት ማረጋገጥ (ክፍል 10)
- Incineration management and testing (Conditions #11 & 12) / የአየር ንፍሽ ስራው ላይ የክብደት ጥፋት ምክንያት የሆኑትን አስተዳደር ዘመናዊነት ማረጋገጥ (ክፍል 11 & 12)
- Noise and vibration management (Conditions #14 and 15) / የአየር ንፍሽ ስራው ላይ የክብደት ጥፋት ምክንያት የሆኑትን አስተዳደር ዘመናዊነት ማረጋገጥ (ክፍል 14 እና 15)

ጋህናፍር፡፡ ልዎጥ፡፡
ፈረካ፡፡ ለረገ፡፡

- Consolidate Conditions 2 to 4 and Conditions 6 to 9
 ከጋራ ሆኑት ሁኔታዎች 2-4 እና 6-9 ለሁሉም ሁኔታዎች ማህደራሪ ማድረግ
- Remove redundant Conditions (#11, 14(a) and 15)
 ከሁኔታዎች ውስጥ ያልተገኙትን ሁኔታዎች (#11, 14(a) እና 15) ማህደራሪ ማድረግ



Proposed Changes to Certificate Conditions

ԾԻԳՅԸՎՐՎ ԳՂԴՈՐ
 ԴԵԿԱԶԻՐՈՐ ԼԵՆՐԻ

- Update Condition 12 (stack testing of incinerators)
ፎቅሲ ስርዓት ተስተካክሎ 12 (የአብረውን ጋሳ ማጣሪያ)
- Update Condition 10 (Air Quality And Noise Abatement Management Plan)
ፎቅሲ ስርዓት ተስተካክሎ 10 (የአየር ንፁህናት እና ስልክ አቃባይነት ማስፈለግ ዘመድ)
የአየር ንፁህናት እና ስልክ አቃባይነት ማስፈለግ ዘመድ
- Introduces adaptive management
የማስተካከል አቅም የሚሰጠውን አቅም ይጨምራል



[illegible]

- [illegible]

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ልጋሩ ሲሆኑ 622, ልጋሉ ልጋቸው,
 ልጋቸው ሲሆኑ 102
 ልጋሉ, ልጋቸው X0A 0H0