

Load Definition: Reference Load

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Functions

afx_msg long **OSLoadUI::GetReferenceLoadCaseCount ()**

Returns the number of reference load case defined in Reference Load Definitions.

afx_msg long **OSLoadUI::GetReferenceLoadCaseNumbers (VARIANT FAR *LoadNoArray)**

Gets reference load case number ID(s) in Reference Load Definitions.

afx_msg long **OSLoadUI::CreateNewReferenceLoad (const long nLoadNo, const VARIANT FAR &varLoadCaseTitle, const long nLoadType)**

Creates a new Reference Load Definition and set as active.

afx_msg long **OSLoadUI::SetReferenceLoadActive (const long nLoadCaseNo)**

Identify a Load Case in Load Case Details to add, count and get reference load item(s).

Detailed Description

These functions are related to Reference Load Definition.

Function Documentation

- ◆ **CreateNewReferenceLoad()**

```
long OSLoadUI::CreateNewReferenceLoad ( const long nLoadNo,
                                         const VARIANT FAR & varLoadCaseTitle,
                                         const long nLoadType )
```

Creates a new Reference Load Definition and set as active.

Parameters

- [in] **nLoadNo** (Reference) load case reference ID to be assigned to new created reference load case.
- [in] **varLoadCaseTitle** Load case string title.
- [in] **nLoadType** Type of the load.

Value	Load Type	Value	Load Type
0	Dead	12	Traffic
1	Live	13	Temp
2	Roof Live	14	Imperfection
3	Wind	15	Accidental
4	Seismic-H	16	Flood
5	Seismic-V	17	Ice
6	Snow	18	Wind Ice
7	Fluids	19	Crane Hook
8	Soil	20	Mass
9	Rain	21	Gravity
10	Ponding	22	Push
11	Dust	23	None

Return values

- <Val> Reference load case number ID.
- 1 General error.
- 8004 Fail to create load.

C++ Syntax

```
// Create Reference Load Definition, with Reference Load Definition(s) number ID of 1,
// Loading Type of Dead Load and title of "REF LOAD CASE 1".
long nRefLoadNo = OSLoadUI::CreateNewReferenceLoad(1, (LPCTSTR)"REF LOAD CASE 1", 0);
```

VBA Syntax

Loading [MathJax]/extensions/MathZoom.js	Definition, with Reference Load Definition(s) number ID of 1, Dead Load and title of "REF LOAD CASE 1".
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```
Dim nRefLoadNo As long = OSLoadUI.CreateNewReferenceLoad(1, "REF LOAD CASE 1", 0)
```

See also

[OSLoadUI::GetReferenceLoadCaseCount](#)
[OSLoadUI::GetReferenceLoadCaseNumbers](#)
[OSLoadUI::SetReferenceLoadActive](#)
[OSLoadUI::AddReferenceLoad](#)
[OSLoadUI::GetReferenceLoadCount](#)
[OSLoadUI::GetNumberOfSetsInReferenceLoad](#)
[OSLoadUI::GetReferenceLoadByIndex](#)
[OSLoadUI::DeletePrimaryLoadCases](#)

◆ GetReferenceLoadCaseCount()

long OSLoadUI::GetReferenceLoadCaseCount ()

Returns the number of reference load case defined in Reference Load Definitions.

Return values

<Val> The number of reference load case.
-1 General error.

C++ Syntax

```
// Get the number of reference load case.
long nLoadCount = OSLoadUI::GetReferenceLoadCaseCount();
```

VBA Syntax

```
' Get the number of reference load case.
Dim nLoadCount As long = OSLoadUI.GetReferenceLoadCaseCount()
```

See also

[OSLoadUI::GetReferenceLoadCaseNumbers](#)
[OSLoadUI::CreateNewReferenceLoad](#)
[OSLoadUI::SetReferenceLoadActive](#)
[OSLoadUI::AddReferenceLoad](#)
[OSLoadUI::GetReferenceLoadCount](#)
[OSLoadUI::GetNumberOfSetsInReferenceLoad](#)
[OSLoadUI::GetReferenceLoadByIndex](#)

◆ GetReferenceLoadCaseNumbers()

```
long OSLoadUI::GetReferenceLoadCaseNumbers ( VARIANT FAR * LoadNoArray )
```

Gets reference load case number ID(s) in Reference Load Definitions.

Parameters

[out] **LoadNoArray** Reference load case number ID(s) VARIANT array

Return values

<Val> The number of reference load case(s).

-1 General error.

-106 1 dimensional array of long expected.

-114 OLE Exception Occurred.

C++ Syntax

```
// Get reference load case number ID(s).
long nLoadCount = OSLoadUI::GetReferenceLoadCaseNumbers(&LoadNoArray);
```

VBA Syntax

```
' Get reference load case number ID(s).
Dim nLoadCount As long = OSLoadUI.GetReferenceLoadCaseNumbers(&LoadNoArray)
```

See also

[OSLoadUI::GetReferenceLoadCaseCount](#)
[OSLoadUI::CreateNewReferenceLoad](#)
[OSLoadUI::SetReferenceLoadActive](#)
[OSLoadUI::AddReferenceLoad](#)
[OSLoadUI::GetReferenceLoadCount](#)
[OSLoadUI::GetNoOfSetsInReferenceLoad](#)
[OSLoadUI::GetReferenceLoadByIndex](#)

◆ SetReferenceLoadActive()

```
long OSLoadUI::SetReferenceLoadActive ( const long nLoadCaseNo )
```

Identify a Load Case in Load Case Details to add, count and get reference load item(s).

Parameters

[in] **nLoadCaseNo** Load case reference ID in Load Cases Details.

Return values

<Val> Reference load case number ID.

-1 General error.

-8002 Load Case **nLoadCaseNo** not found.

C++ Syntax

```
// Set reference load case #1 as active load case.  
long nRefLoadNo = OSLoadUI::SetReferenceLoadActive(1);
```

VBA Syntax

```
' Set reference load case #1 as active load case.  
Dim nRefLoadNo As long = OSLoadUI.SetReferenceLoadActive(1)
```

See also

[OSLoadUI::GetReferenceLoadCaseCount](#)

[OSLoadUI::GetReferenceLoadCaseNumbers](#)

[OSLoadUI::CreateNewReferenceLoad](#)

[OSLoadUI::AddReferenceLoad](#)

[OSLoadUI::GetReferenceLoadCount](#)

[OSLoadUI::GetNoOfSetsInReferenceLoad](#)

[OSLoadUI::GetReferenceLoadByIndex](#)

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