STANDARDS OF PRACTICE

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Introduction

These Standards of Practice provide guidelines for the Association of Professional Reserve Analysts and define certain terms relating to Reserve Studies. It is the intention of these Standards to be viewed as a minimum standard and not as a limitation on the opinion, recommendations, or practice of the individual Reserve Analyst. Italicized words in these Standards are defined in Part V, Glossary of Terms.

Part I. Definitions and Scope

A. A Reserve Study is a budgeting tool intended to aid the directors of Associations or other entities responsible for maintaining residential property, retail property, special districts or any other physical plant/property for the future repair, replacement, and restoration of major components of the common areas during the Economic Life of a property.

B. A Reserve Study is a collaboration between the client and Reserve Analyst that brings together the client’s unique firsthand knowledge with the Analyst’s professional expertise.

C. A Reserve Study is comprised of two parts:

   1) Physical Analysis: Information about the physical condition and repair/replacement cost of the property Components the client is obligated to maintain. The Physical Analysis comprises the Component Inventory and the Component Assessment and Valuation. The Component Inventory should be relatively “stable” over time while the results of the Component Assessment and Valuation will change over time.

   2) Financial Analysis: The evaluation and analysis of the client’s reserve income and expenditures. The Financial Analysis opines on the Funding Plan, which recommends an appropriate reserve contribution, and the current Reserve Fund status measured as
Percent Funded or cash balance.

D. A Reserve Study Site Visit is performed to determine the Component Inventory and the Component Assessment and Valuation subject to the limitations, exceptions, and exclusions outlined in Part III.

E. There are three standard Levels of Service

   I. Full Study

   II. Update with Site Visit Study

   III. Update without Site Visit Study

Part II. Standards of Practice

SECTION 1 – Physical Analysis

A. Information within the Physical Analysis Section comes from either a Site Visit or a previous Reserve Study and from any research with the client, client’s representatives, vendors, or other sources.

B. In general, construction defects, acts of God, environmental hazards, future code changes, and unpredictable events shall not be considered. The Reserve Analyst will assume that the Reserve Components have been properly built and installed. The Reserve Analyst shall at minimum consider all major components that have a predictable remaining useful life of 30 years or less except when specifically contracted for or dictated otherwise by applicable statute.

C. A Physical Analysis is not intended to be exhaustive in nature and may include representative sampling.

D. The purpose of a Physical Analysis is to estimate the general condition of systems and components and their repair, replacement, or restoration needs beyond that which can be performed as an operating expense.

E. The condition assessment of like systems or components may be evaluated and funded for as a group. Individual failures within these groups need not be separately accounted for.

F. In general a Reserve Component is a physical asset that is:

   1) Association responsibility

   2) With limited Useful Life expectancy

   3) Predictable Remaining Useful Life expectancy

   4) Above a minimum threshold cost

   5) Or where required by applicable statutes
SECTION 2 – Financial Analysis

A. The Financial Analysis is a function of the expenditures outlined in the Physical Analysis and the current financial condition of the Association.

B. The Financial Analysis portion of a Reserve Study shows the current status of the Reserve Fund measured as Percent Funded.

C. Percent Funded shall be the percentage of the actual or estimated cash balance versus the Fully Funded Balance.

D. The Fully Funded Balance (FFB) shall be calculated by either of the following two equations:

\[
FFB = \left( \frac{\text{Current Cost} \times \text{Effective Age}}{\text{Useful Life}} \right)
\]

or

\[
FFB = \left( \frac{\text{Current Cost} \times \text{Effective Age}}{\text{Useful Life}} \right) \times (1 + (1 + \text{Interest Rate})^{-RUL} - (1 + \text{Inflation Rate})^{-RUL})
\]

E. The Financial Analysis portion of a Reserve Study recommends a Funding Plan based on the current fund status (measured as Percent Funded or cash balance) and the future financial needs of the projects within the Component list.

F. The Funding Plan shall be prepared using either the Cash Flow Method or Component Method and shall recommend a periodic Reserve Contribution.

G. The Funding Plan shall have one of the four following Funding Goals: Full Funding (Fully Funded), Threshold Funding, Statutory Funding, or Baseline Funding.

H. In general any Funding Plan shall meet the following Funding Principles: Sufficient funds when required, stable contribution rate over the years, evenly distributed contributions over the years, and fiscally responsible.

I. The Funding Plan shall include a reasonable and fiscally responsible provision for inflation and interest. A general description of the method for which inflation and interest are calculated as well as the rates used shall be included in the report.

J. Future costs estimates are based on the current costs and the inflation provision.

K. Financial Analysis shall include a 30-year summary of the Funding Plan.
Part III. Limitations, Exceptions, and Exclusions

SECTION 1 – Site Visit.

The following are typically excluded from the Site Visit. Items excluded from the Site Visit are not necessarily excluded from the Physical Analysis or Financial Analysis.

A. Systems or components of a building, or portions thereof, which are not Readily Accessible, or are excluded due to circumstances beyond the control of the Reserve Analyst or which the Client has agreed or specified to be excluded.

B. Systems or components, or portions thereof, which are under ground, under water, or where the Inspector must come into contact with water.

C. Determining compliance with manufacturers' installation guidelines or specifications, building codes, accessibility standards, conservation or energy standards, regulations, ordinances, covenants, or other restrictions.

D. Structural, architectural, forensic, geological, environmental, hydrological, land surveying, or soils-related examinations.

E. Acoustical or other nuisance characteristics of any system or component of a building, complex, adjoining property, or neighborhood.

F. Conditions related to animals, insects, or other organisms, including fungus and mold, and any hazardous, illegal, or controlled substance, or the damage or health risks arising there from.

G. Risks associated with events or conditions of nature including, but not limited to; geological, seismic, wildfire, and flood.

H. Water testing any building, system, or component or determine leakage in shower pans, pools, spas, or any body of water.

I. Differentiating between original construction or subsequent additions or modifications.

J. Fire extinguishing and suppression systems and components or determining fire resistive qualities of materials or assemblies.

K. Elevators, lifts, and dumbwaiters.

L. Lighting pilot lights or activating or operating any system, component, or appliance that is shut down, unsafe to operate, or does not respond to normal user controls.

M. Operating shutoff valves or shutting down any system or component.

N. Dismantling any system, structure, or component or removing access panels.
Note:

The Reserve Analysts may, at his or her discretion:

1) Include in the Site Visit any building, system, component, appliance, or improvement not included or otherwise excluded by these Standards of Practice. Any such inclusion to the Site Visit shall comply with all other provisions of these Standards.

2) Include photographs in the written report or take photographs for Inspector's reference without inclusion in the written report. Photographs may not be used in lieu of written documentation.

Components excluded for the Site Visit may be included in the Physical Analysis, in part or in whole, if they meet the necessary qualifications to be a Reserve Component as outlined in Part II Section 1.F at the discretion of the Reserve Analyst.

SECTION 2 – Physical Analysis.

The following are typically excluded from the Physical Analysis:

A. Specifying repairs/replacement procedures or estimating cost to correct.

B. Systems or components that typically experience an Extended Useful Life.

C. Systems or components that do not have a predictable Remaining Useful Life.

D. Systems or components that the client has advised the Reserve Analyst to omit from the Reserve Study.

E. Systems or components provided for in whole under a maintenance contract.

F. Systems or components provided for in whole within another part of the budget.

G. Leased systems or components.

H. Services of a legal nature including legal interpretations or opinions of any documents, maps, etc.

SECTION 3 – Financial Analysis

The following are typically excluded from the Financial Analysis:

A. Expected rates of return on investments significantly beyond that of current savings rates.

B. Expected settlements or monies owed or to be transferred to reserves, before the final amount has been set and approved by the board.

C. Limitations to increases of the reserve contribution or assessments from Governing Documents.
D. Investment strategies or financial planning advice beyond that of the recommended reserve contribution.

E. Auditing or other accounting services, Reserve Analyst shall assume financial information provided by the client or client’s representative is accurate.

IV. Reserve Study Report Contents

A Reserve Study shall conform to the Reserve Study Contents Checklist found within the APRA Application for Membership and Professional Reserve Analyst (PRA) Designation. In addition to these requirements, the Reserve Study shall disclose any deferral or exclusion that has a material impact to the results of the study.

V. Glossary of Terms

*Note: All definitions apply to derivatives of these terms when italicized in the text.

1. Association: For the purposes of this document “Association” shall encompass Community Associations, schools, commercial buildings, mutual utility properties, worship facilities, and any other entity interested in the long range planning for the maintenance and replacement of the major components.

2. Cash Flow Method - A method of calculating Reserve contributions where contributions to the Reserve Fund are designed to offset the variable annual expenditures from the Reserve Fund. Different Reserve Funding Plans are tested against the anticipated schedule of Reserve expenses until the desired Funding Goal is achieved.

3. Component – or Reserve Component. An individual line item in the Reserve Study developed or updated in the Physical Analysis. These elements form the building blocks of the Reserve Study. Components typically are: 1) Association responsibility, 2) with limited Useful Life expectancies, 3) predictable Remaining Useful Life expectancies, 4) above a minimum threshold cost, and 5) as required by applicable statutes.

4. Component Assessment and Valuation - The task of estimating Useful Life, Remaining Useful Life, and Repair or Replacement Costs for the Reserve Components. This task is accomplished either with or without onsite visual observations, based on Level of Service selected by the client.

5. Component Inventory - The task of selecting and quantifying Reserve Components. This task is accomplished through any of the following: onsite visual observations, review of Association design and organizational documents, review of a previous Reserve Study, review of established Association precedents.

6. Component Method - A method of calculating Reserve contributions where the total reserve contribution is based on the sum of contributions for individual Components.

7. Current Cost – A component’s current replacement cost as of the date of the financial analysis. Current cost may be less or greater than the total replacement cost depending on the defined replacement scope.

8. Deficit - An actual (or projected) Reserve Balance less than the Fully Funded Balance. The opposite would be a Surplus.

9. Economic Life – the portion of the total life of a property up until the infrastructure is no longer economically viable to maintain and a significant reinvestment, rebuilding, or renovation is necessary.

10. Effective Age - The difference between Useful Life and Remaining Useful Life. Not always equivalent to chronological age, since some Components age irregularly. Used primarily in computation.

11. Extended Useful Life – Systems or Components generally designed to last the life of the community or for which the replacement cost would be economically impractical. Items generally excluded in this
category include utility systems, building infrastructure, permanent structures, asphalt streets, swimming pools, tennis courts, etc.

12. Financial Analysis - The portion of a Reserve Study where current status of the Reserves (measured as cash or Percent Funded) and a recommended Reserve contribution rate (Reserve Funding Plan) are derived. The Financial Analysis is one of the two parts of a Reserve Study.

13. Full Study – Complete qualitative and quantitative study, includes site visit.

14. Fully Funded - 100% Funded. When the actual (or projected) Reserve Balance is equal to the Fully Funded Balance.

15. Fully Funded Balance (FFB) - Total Accrued Depreciation. An indicator against which Actual (or projected) Reserve Balance can be compared. In essence, it is the Reserve Balance that is proportional to the current Repair/replacement cost and the fraction of life “used up”. This number is calculated for each Component, then summed together for an association total. Two formulae can be utilized, depending on the provider’s sensitivity to interest and inflation effects. Note: both yield identical results when interest and inflation are equivalent.

16. Funding Goals - Independent of Methodology utilized, the following represent the basic categories of Funding Plan goals.

16.1. Baseline Funding - Establishing a Reserve Funding goal of keeping the Reserve cash balance above zero.

16.2. Fully Funded - Setting a Reserve Funding goal of attaining and maintaining Reserves at or near 100% funded.

16.3. Statutory Funding - Establishing a Reserve Funding Goal of setting aside the specific minimum amount of funds required by applicable statutes.

16.4. Threshold Funding - Establishing a Reserve Funding goal of keeping the Reserve Balance above a specified dollar or Percent Funded amount. Depending on the threshold this may be more or less conservative than “Fully Funded”.

17. Funding Plan - An Association’s plan to provide income to a Reserve Fund to offset anticipated expenditures from that fund.

18. Inflated Expenditures - The combined annual expenditures for a given year inflated to reflect their estimated future replacement cost.

19. Inflationary Multiplier - The number multiplies by the annual expenditures to estimate the future replacement cost. If inflation was currently projected at 3%, the initial year multiplier would be 1.00, Next Year 1.03, Next year 1.061, etc.

20. Methodology - A statement which addresses the procedures and methods used to prepare a Reserve Study.

21. Minimum Balance - A minimum Reserve Balance established by the client or recommended within the Financial Analysis.

22. Percent Funded - The ratio, at a particular point of time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

23. Physical Analysis - The portion of the Reserve Study where the Component Inventory and Component Assessment and Valuation adjustment tasks are performed. This represents one of the two parts of the Reserve Study.

24. Quantity - The total Quantity of each Component.

25. Readily Accessible - Can be reached, entered, or viewed without difficulty, moving obstructions, or requiring any action which may harm or endanger persons or property.

26. Remaining Useful Life (RUL) - Also referred to as Remaining Life (RL). The estimated time, in years, that a Reserve Component can be expected to continue to serve its intended function. Replacements anticipated to occur in the initial or base year have “zero” Remaining Useful Life.


28. Reserve Assessment - The portion of assessments contributed to the Reserve Fund.

29. Reserve Balance - Actual or projected funds as of a particular point in time that the Association has identified for use to defray the future repair or replacement of those major components which the
Association is obligated to maintain. Also known as Reserves, Reserve Accounts, Cash Reserves.
30. Reserve Component – see Component.
32. Reserve Study - A budgeting tool which identified the current status of the Reserve Fund and a stable and equitable Funding Plan to offset the anticipated future “major common area expenditures”. The Reserve Study consists of two parts: the Physical Analysis and the Financial Analysis.
33. Site Visit – A visit to the common areas of the Association for the purposes of determining the Component Inventory and the Component Assessment and Valuation.
34. Special Assessment - An assessment levied on the members of an Association in addition to regular assessments. Special Assessments are often regulated by Governing Documents or applicable statutes.
35. Straight Line - A formula used to calculate the annual Reserve Fund contribution for a specific Component. Projected replacement cost divided by the Useful Life equals the annual payment.
36. Surplus - An actual (or projected) Reserve Balance greater than the Fully Funded Balance. See “Deficit”.
37. Unit Cost - The cost of a Component. The Unit Cost is multiplied by the Component’s Quantity to obtain the total estimated replacement cost for the Component.
38. Unit of Measure - Refers to the method of measurement applied to a particular Component. The following are examples:
38.1. Square Feet
38.2. Lineal Feet or Linear Feet
38.3. Each
38.4. Square Yards
38.5. Lump Sum
38.6. Squares
39. Update with Site Visit - Qualitative only update and review study, includes site visit.
40. Update without Site Visit – Financial only update study, does not include site visit.
41. Useful Life (UL) - Total Useful Life or Depreciable Life. The estimated time, in years, that a Reserve Component can be expected to serve its intended function in its present application or installation.

Approved by the Board of Directors September 14, 2012.